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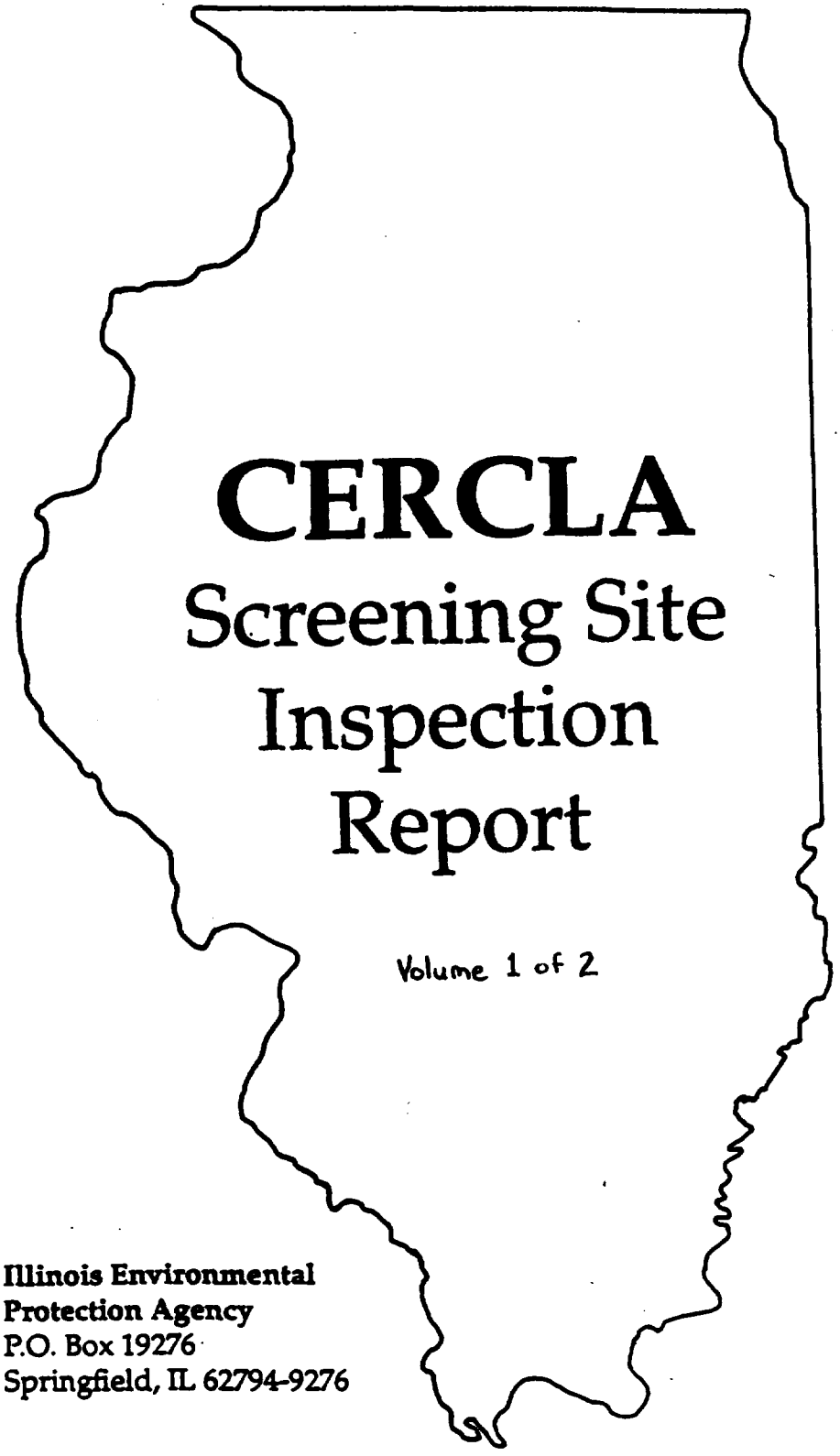

CERCLA
Screening Site Inspection Report

Volume 1 of 2

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1. INTRODUCTION

On January 24, 1991, the Illinois Environmental Protection Agency's (IEPA) Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (USEPA) to conduct a Screening Site Inspection (SSI) of Sauget Sites Area #1.

Environmental and human health concerns arise from many problem sites and potential areas of contamination in Sauget and northern Cahokia. Over time, the USEPA has added these sites to the Comprehensive Environmental Response Compensation and Liability Act's Information System (CERCLIS), in response to requests for discovery by IEPA and other agencies. The sites have been evaluated in the past by Preliminary Assessments (PA's) conducted by IEPA and USEPA contractors. Although the Area #1 sites have been previously scored by an IEPA contractor, the Sites were not proposed for the National Priorities List (NPL) because of the forthcoming Hazard Ranking System (HRS) model changes. IEPA's Pre-Remedial Unit prepared an SSI work plan for Sauget Sites Area #1 that was submitted to USEPA Region V in March, 1991. The sampling portion of the SSI was conducted in June, 1991 when personnel from the Agency's Pre-Remedial Unit collected eighteen samples (five groundwater and thirteen soil and sediment).

The purpose of an CERCLA SSI have been stated by USEPA in a directive outline of Pre-Remedial Program strategies. The directive states:

> All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical date requirements for the listing SI step. A Screening Si will not have rigorous date quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.
>
> The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (USEPA 1988)

The Region V offices of the USEPA have also requested that the IEPA identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

This section includes information obtained over the course of the formal CERCLA SSI investigation, as well as previous IEPA, USEPA and local industry sponsored investigations of the Sauget Sites Area #1.

2.2 SITE DESCRIPTIONS

Sauget Sites Area #1 (also referred to as Area #1 Sites or just Sites for the purposes of this report) include at least 9 primary sources of contamination in and adjacent Dead Creek in Sauget and northern Cahokia. The nine sources are contained within eight aggregated Sites include four landfills, three lagoons and contaminated segments of Dead Creek. A 4-mile radius map of these Sites can be viewed in Appendix A. The following index lists the eight common site names, followed by the name of each site as entered on CERCLIS and the corresponding ILD number.

Common Name	CERCLIS Name	ILD Number
Site G	Dead Creek Area G	ILD 981953623
Sites I/H	Sauget Monsanto Landfill	ILD 980614176
Site L	Waggoner Trucking Company	ILD 984809269
Site M	H.H. Hall Excavation Pit	ILD 984809251
Site N	H.H. Hall Construction Company	ILD 982073603
CS A	Dead Creek Segment A	ILD 984809277
CS B	Dead Creek	ILD 980792006
CS C-F	Dead Creek Segments C through F	ILD 984809285

A summarized source description for each of the Area #1 Sites is presented in the following table. The map on the following page shows the Sites location with respect to the State of Illinois.

Table 2-1

Aggregated Sources at Sauget Sites Area #1

Site Name	Source Type	Source Size	Years of Operation	Owner at that Time	Observed Contamination
G	Landfill	approx. 4.5 ac.	1952-late 1970's	Leo Sauget Wiese Eng.	Soil, GW Air
I/H	connected Landfills	approx. 24 ac.	1931-1957 (H)1981	Leo Sauget J. Tolbird	Soil, GW
L	2 Lagoons	approx. 0.17 ac.	1975-1981	Harold Waggoner Ruan Trucking	Soil, GW
M	Lagoon	1.36 ac.	1950's-unk.	H.H. Hall	Soil, GW
N	Landfill	approx. 4-5 ac.	1950's-unk.	H.H. Hall	Soil
CS A	Contaminated Sediment	1700 ft.	early 1900's-	Leo Sauget	*Soil, GW
CS B	Contaminated Sediment	1800 ft.	early 1900's-	Village Residents	Soil, GW Air
CS C-F	Contaminated Sediment	15000 ft.	early 1900's-	Village Residents	Soil

Abbreviations: ac.-acre(s), unk.-unknown, approx.-approximately, Co.-Company, GW-Grownd water, Rt.-Route, SW-Surface Water, *-remediated as of December, 1990.

A comprehensive description of each of the Sites is contained within Section 4 (Sources of Contamination). Each site is depicted on the maps in Section 4.

2.3 SITE HISTORIES

Waste disposal began in Area #1 with the purchase of property at Site H for the disposal of hazardous wastes

Figure 2-1


JO DAVIESS
STEPHENSON
WINNEBAGO
BOONE
MCHENRY
LAKE
CARROLL
OGLE
DEKALB
KANE
COOK
DU PAGE
WHITESIDE
LEE
KENDALL
WILL
HENRY
BUREAU
LASALLE
GRUNDY
ROCK ISLAND
MERCER
KANKAKEE
STARK
PUTNAM
KNOX
MARSHALL
LIVINGSTON
HENDERSON
WARREN
IROQUOIS
PEORIA
WOODFORD
FULTON
McLEAN
HANCOCK
McDONOUGH
FORD
VERMILION
TAZEWELL
CHAMPAIGN
SCHUYLER
LOGAN
DEWITT
ADAMS
MASON
CASS
MENARD
MACON
BROWN
MORGAN
SANGAMON
PIATT
DOUGLAS
EDGAR
PIKE
MOULTRIE
SCOTT
COLES
GREENE
MACOUPIN
CHRISTIAN
CLARK
CALHOUN
MONTGOMERY
SHELBY
CUMBERLAND
JERSEY
FAYETTE
JASPER
MADISON
BOND
EFFINGHAM
CRAWFORD
CLAY
RICHLAND
LAWRENCE
MARION
CLINTON
ST CLAIR
WAYNE
WABASH
EDWARDS
JEFFERSON
MONROE
WASHINGTON
RANDOLPH
PERRY
WHITE
HAMILTON
FRANKLIN
JACKSON
SALINE
GALLATIN
WILLIAMSON
UNION
JOHNSON
POPE
HARDIN
ALEXANDER
PULASKI
MASSAC
SITE LOCATION

generated by local industries. According to title records, Mr. Leo Sauget began acquiring property for disposal purposes as early as December, 1931 (see purchase of Lot 128 of Cahokia Commonfields). According to aerial photo's (1937), disposal first occurred in the northern portion of Site H and proceeded in a southeasterly direction. As the disposal area on Lot 128 was used up, operations were moved to the north (into Site I) with Mr. Sauget's purchase of Lot 127 (Cahokia Commonfields) in April, 1943.

The Village of Monsanto purchased a strip of Lot 210 (Third Subdivision of Cahokia Commonfields) in August, 1948 for the construction of Midwest Avenue (now Queeny Avenue). As verified by aerial photos, this road construction marked a period after which disposal activities intensified in the southern portion of Site I (Lot 127). Mr. Leo Sauget acquired portions of certain lots (County Tax parcels 1-26-401-003 and 1-26-401-004) also known as Site G in July, 1952. Similar waste disposal practices followed at this site.

As for additional disposal at Site I, Mr. Leo Sauget's son, Mr. Paul Sauget purchased Lot 126 in April 1930 and turned the title over to Illinois State Trust in July, 1948. According to Aerial photos, disposal would have began in the northern-most landfill shortly after this time. Mr. Leo Sauget took over the property in December, 1952 and evidently continued waste disposal practices until 1957 when he began using Area #2 (Site R landfill) for the disposal of Monsanto wastes. A "Notification of Hazardous Waste Site" form was

submitted by two Monsanto plants for a landfill at a Falling Springs address. Indications were given that varying amounts of chemical wastes were disposed of until 1957.

In November of 1959, Mr. Leo Sauget obtained a certificate of authority to transact business in Illinois under the name "Industrial Salvage and Disposal, Incorporated" with Leo, Paul and Vincent Sauget serving on the board of Directors. The name was changed to "Sauget & Company" in November, 1966. The fact that Mr. Leo Sauget's business was not incorporated until 1959 suggests that most of his business was done on a contractual basis. Leo and Paul Sauget then solicited other hazardous waste generators/transporters after their business was organized.

Harold Waggoner & Company (a hazardous/special waste hauler) purchased property south of Site H in 1963. The purchase included County Tax parcels 1-35-200-013, -031, -033, -034, -035, -036. Waste disposal began at Site L in 1971 after IEPA caught the company dumping wastewater into CS B. The business operated two surface impoundments which were used to dispose of hazardous waste products and truck washings from its hauling operations. In 1975, the property was transferred to Harold Waggoner, who in turn sold it to Ruan Trucking Company in 1981. Ruan reportedly continued this disposal practice in parcels 1-35-200-013 and -031 (Site L). Upon Ruan's purchase of Waggoner's entire property, parcels 1-35-200-033, -034, -035 and -036 were sold to Tony Lechner (April, 1982) and eventually to current owner,

L. Kelley Paving and Construction Company in December, 1984.

Disposal at Site G may have continued under Industrial Salvage Incorporated through May, 1966 when Mr. Leo Sauget sold the property to its current owner, Wiese Engineering. There may also be private ownership of certain portions of Site G. All Site H and I property was sold by Mr. Leo Sauget to Roger's Cartage Company in two transactions (December, 1965 and April, 1968). Roger's Cartage apparently used the property at Site I for parking until it was sold to Cerro Corporation in the transactions of May, 1967 and June, 1968. Cerro Copper Products Company now owns all portions of Site I. The Site H portions of Roger's Cartage property were transferred to the current owner, Mr. James Tolbird in 1979.

Two former sand pits that lie alongside Dead Creek are Sites M and N. These pits were owned by H.H. Hall Construction Company during the times of disposal. The age of the pits dates back to the 1940's. Although unsubstantiated, these pits were recipients of local wastes as evidenced by sample data and historical aerial photographs.

The Village of Sauget was and still is home to many hazardous waste generators and transporters. Most of the Sauget generators and transporters of hazardous waste are listed in Table 2-2 on the following page.

Table 2-2

Local Sauget Generators

American Zinc (later Big River Zinc followed by Amax Zinc)
Darling Fertilizer (defunct)
Federal Chemical (later part of Krummrich Plant)
Industrial Salvage and Disposal Company (later Sauget and Company
Lewin Metals (later Cerro Copper Products)
Lubrite Refining (later Socony Vacuum, followed by Mobil Oil)
Midwest Rubber Reclaiming Company
Monarch Petroleum (later Sunoco, followed by Mineweld)
Monsanto Chemical Company - Krummrich Plant
Sterling Steel Castings
Union Electric Power Plant (defunct)
Rogers Cartage Company
US Chemical Warfare Service (later Monsanto then Edwin Cooper and now Ethyl Corporation)
Waggoner Trucking (later Ruan Transportation Corporation)
Wiese Planning and Engineering, Incorporated

Prior to the development of an interceptor sewer line to the Mississippi River, in the late 1930's, the industries closest to Dead Creek would let their waste flow into the intermittent creek. Even after a 36 inch sewer line was built to carry wastes to the Mississippi River, overflows, created by flooding or peaks in waste output, were routed into Dead Creek (Sanitary Water Board maps). In 1942, the Monsanto (Sauget) village engineer admitted that Dead Creek would be routinely used for waste discharge. Residents located between Sauget and Cahokia were awarded $4,000 because of complaints about Dead Creek disposal. The local industries paid despite their claims that the discharges would be beneficial since the great volume of water would flush settled solids from Dead Creek into the Mississippi River (1942 Report to SWB).

Additional sources of effluent have been found entering

Dead Creek (Sanitary Water Board maps). These include outfalls found during the 1990, 13 million dollar clean-up of Dead Creek Segment A by Cerro Copper Products and an 18 inch line from Midwest Rubber Reclaiming. This line discharged wastewater into CS B as did the overflow from the Waggoner Trucking Company lagoons.

As local industry expanded, so did the hazardous and special waste haulers in the area. Mr. Leo Sauget's Industrial Salvage and Disposal Company (later Sauget and Company) used the slag and fly ash from the nearby Union Electric Power Plant for landfill cover materials. Waggoner Trucking Company also disposed of wastes from local industries. IEPA observed a Waggoner Trucking Company truck dumping wastes directly into CS B. Later, the company was forced to build the two lagoons at Site L. The lagoons were designed to overflow into Dead Creek. Another hazardous waste hauler used by the area generators was Rogers Cartage, owned by Mr. James Tolbird. Mr. Tolbird purchased the filled Site H, where he may have deliberately dumped liquid wastes (1981 aerial photograph).

2.4 PREVIOUS INVESTIGATIONS

In 1980, USEPA conducted a thermal infrared study of the E. St. Louis and Sauget area (February, 1981, Thermal Infrared Survey of Hazardous Waste Sites East St. Louis, Illinois TS-AMD-8128). The pictorial gives a visual account of thermal discharges in Dead Creek as well as leachate seeps entering the creek from Sites I, G and N. Discharges from

the ponded water at Site M are more obvious with the eight foot opening into at CS B.

Also in 1980, IEPA conducted a hydrogeologic study of the Dead Creek Area. This included the installation of a dozen monitor wells and the collection of soil and sediment samples. The study revealed widespread soil and groundwater contamination of organics and inorganics in the area surrounding the northern portion of Dead Creek.

The hydrogeologic study prompted IEPA to try and place the sites located around the northern portion of Dead Creek on the NPL. The 1984 scoring package was rejected because more documented information was needed for the Area #1 Sites.

Documented Area #1 scoring information was gained through IEPA's 1985 contract with Ecology and Environment, Incorporated (E&E). E&E investigated 12 suspected uncontrolled hazardous waste sites and the six segments of Dead Creek in Sauget and Cahokia. The investigation included the Area #1 Sites (with the segments of Dead Creek) and the Area #2 Sites. The IEPA financed investigation involved geophysical surveys, soil gas surveys, geological borings with monitor well installation, and samples of soil, sediment, surface water, groundwater and air.

E&E's geophysical survey included the use of magnetometry and electomagnetics (EM). Magnetometry aids in the detection of buried ferrous materials such as drums, while EM helps identify subsurface materials and possible contaminant plumes (some contaminants produce an increase in

free ion concentration in soil and groundwater). A fluxgate gradiometer magnetometer was used for the magnetrometry work, as it provided less surface noise interference. The Area #1 surveys took place at Sites G, H, and L. Intense anomalies were observed at Sites G and H for both surveys, however Site L's EM survey found no significant anomalies and magnetometry proved inconclusive due to interferences from heavy machinery.

Following the geophysical work, E&E conducted a soil gas survey. Stainless steel pipes were hammered into the ground to three foot depth. Air was then drawn through a teflon connector and into a flame ionization, organic vapor analyzer (OVA). The following table shows that volatile organic soil gases were found at each Site/Segment.

Table 2-3

Soil Gas Survey Results

Site	# of Hits Per # of Samples	Hit Sample Level in mg/l of Air
G	2/11	>100
H	6/12	>1000
CS A/I	6/19	>1000
CS B	2/7	>100
CS C	1/3	>3 x bkg.
L	3/10	>1000
M	2/6	>3 x bkg.
N	5/8	>3 x bkg.
N	2/8	>1000

bkg.-background sample location, >-greater than, x-times, mg/l-milligrams per liter.

After viewing historic aerial photographs and conducting the geophysical and soil gas surveys, E&E continued the Dead Creek area investigation with geologic borings and monitor

well installation. The boring logs show that, in many instances, the geologic profiles include waste as part of the subsurface characteristics. What follows are examples of the waste, explicitly described in the boring logs: {G-9, 11-12.5 feet- WASTE consisting of black fibrous material with pink grease-like globules (wet). Pink globules float on water; H-4, 18.5-20 feet- WASTE same as above (black sludge with small spherical beads, broken glass, paper products), including a greenish-yellow jelly-like material. Wet with an oil or tar like substance adhering to the spoon. 23.5-25 feet- WASTE consisting of multi-colored (red, green, brown, black and white) materials including a chunk of a waxy white substance that breaks into flakes; I-6, 21-22.5 feet- WASTE consists of various debris including black oily stained layered cardboard, paint pigments, burlap cloth and a yellow sludge-like substance. Wet.}. The average thickness of the waste found at the landfill sites (G, H/I) ranges 15-25 feet thick.

Samples were collected from the wastes encountered during the drilling. Samples were also collected from the surface soil/sediments and monitor wells after proper development. The following pages summarize the maximum soil/sediment and groundwater concentrations of the contaminants found at the Area #1 Sites. Most of the Dead Creek samples were collected from the northern segments (CS A, B and C) with only a few samples taken in CS D and none collected from CS E or F.

Table 2-4

SAUGET SITES AREA #1: SITES G, H, I, L, M, N, CREEK SEGMENTS A, B, C

MAX SOIL/SED CONC AT:	G		H		I		L		M	
VOLATILES (ppm)										
1,2-Dichloroethene(total)	0.7	J	--		--		20		--	
Chloroform	11.628		0.192		--		--		--	
1,2-Dichloroethane	0.4	J	0.012	J	--		--		--	
2-Butanone (MEK)	12.286		--		--		--		--	
1,1,1-Trichloroethane	--		--		1.692		--		--	
Trichloroethene	3.846		0.01	J	3.81		--		--	
Benzene	45.3		61.29		24.13		4.2		--	
4-Methyl-2-Pentanone	6		7.842	J	4.158		0.17		--	
Tetrachloroethene	58.571		5.645		5.265		--		--	
Toluene	117.647		76.45		77.91		27		--	
1,1,2,2-Tetrachloroethane	0.581	J	--		--		--		--	
Chlorobenzene	538.462	E	451.613	E	126.9		--		10	
Ethylbenzene	16.923		12.788		15.07		0.04	J	0.82	J
Xylene(total)	41.538		23.63		19.18		0.67	J	--	
SEMIVOLATILES (ppm)										
Phenol	177.8		0.4	J	27	J	1.5	J	--	
2-Chlorophenol	8.8	J	--		--		2.2		--	
1,3-Dichlorobenzene	240	J	240	J	70		--		--	
1,4-Dichlorobenzene	22000		31000	E	1800		--		40	
1,2-Dichlorobenzene	--		19000	E	140		--		26	
Methylphenol	--		--		--		1.1	J	--	
2,4-Dichlorophenol	141.1	J	741.9		--		--		--	
1,2,4-Trichlorobenzene	120	J	7600		8300	E	--		14	
Naphthalene	5400		2300		510		0.53	J	3.3	J
4-Chloroaniline	--		--		--		--		--	
2-Methylnaphthalene	37	J	350		170		1.1	J	6.9	J
2,4,6-Trichlorophenol	0.49		612.9		--		--		--	
2-Nitroaniline	220		--		--		--		--	
4-Nitrophenol	1000		--		--		--		--	
Dibenzofuran	0.9	J	600		5.6		--		--	
Fluorene	--		480		35		--		5.2	J
4-Nitroaniline	--		1800		--		--		--	
N-Nitrosodiphenylamine	--		--		100	J	--		--	
Hexachlorobenzene	--		--		1300		--		--	
Pentachlorophenol	4800		--		190		58		--	
Phenanthrene	51	J	2100		100		1.8	J	12	J
Anthracene	--		680		200		--		2.5	J
Fluoranthene	45		1330		200		0.45		21	
Pyrene	85		660		49	J	--		23	
Benzo(a)anthracene	--		--		6.7		0.91	J	9.4	J
Chrysene	39	J	--		--		0.2		12	
Benzo(b)fluoranthene	--		--		32	J	--		15	
Benzo(k)fluoranthene	10		--		--		--		9.3	J
Benzo(a)pyrene	22	J	270		2.5		--		7.5	J
Indeno(1,2,3-cd)pyrene	5.2		--		--		--		3.7	J
Dibenz(a,h)anthracene	5.4		--		--		--		1.2	J
Benzo(g,h,i)perylene	1.5	J	--		--		--		6	J
PESTICIDES/PCB'S (ppm)										
4,4'-DDE	0.3		0.78		--		--		--	
4,4'-DDD	--		0.43		30		--		--	
4,4'-DDT	--		0.92		4.3		--		--	
Toxaphene	--		--		490		--		--	
Aroclor-1242	--		--		--		--		--	
Aroclor-1248	27300	C	--		--		--		210	
Aroclor-1254	29000	C	--		--		--		81	J
Aroclor-1260	21000	C	18000		340	J	--		72	J
INORGANICS (ppm)										
Arsenic	39	*	388	R	14		172		--	
Barium	169000		3242		3603		197		9060	
Cadmium	46		294		13		6		47.2	
Chromium	985		100		731		16		183	
Cobalt	89		105		140		9		20.6	B
Copper	5500		2444		630		141		21000	
Lead	18400	*	1150	*	23330		106		1910	
Mercury	34.3		3.9		3.2		0.1		--	
Nickel	382		15097		2405		2392		2490	
Selenium	4.1		2		--		--		--	
Vanadium	19400		95		553		25		37.7	
Zinc	67800		39516		6329		166		31600	

Table 2-4 (cont.)

MAX SOIL/SED CONC AT:	N	CS A	CS B	CS C
VOLATILES (ppm)				
1,2-Dichloroethene(total)	--	--	--	--
Chloroform	--	--	--	--
1,2-Dichloroethane	--	--	--	--
2-Butanone (MEK)	--	--	14	--
1,1,1-Trichloroethane	--	--	--	--
Trichloroethene	--	--	--	--
Benzene	--	--	0.067 J	--
4-Methyl-2-Pentanone	0.004 J	--	0.22 J	--
Tetrachloroethene	--	--	--	--
Toluene	--	--	0.81	--
1,1,2,2-Tetrachloroethane	--	--	--	--
Chlorobenzene	--	0.048 J	5.2	--
Ethylbenzene	--	--	3.6	--
Xylene(total)	--	--	0.99	--
SEMIVOLATILES (ppm)				
Phenol	--	--	--	0.58 J
2-Chlorophenol	--	--	--	--
1,3-Dichlorobenzene	--	0.55 J	--	0.11 J
1,4-Dichlorobenzene	--	2.9	220	0.69 J
1,2-Dichlorobenzene	--	0.48	17 J	--
Methylphenol	--	--	--	--
2,4-Dichlorophenol	--	--	--	--
1,2,4-Trichlorobenzene	--	1.5 J	5.4 J	0.26 J
Naphthalene	--	0.13 J	9.5 J	0.33 J
4-Chloroaniline	--	1 J	--	--
2-Methylnaphthalene	--	0.45 J	8.4 J	0.1 J
2,4,6-Trichlorophenol	--	--	--	--
2-Nitroaniline	--	--	--	--
4-Nitrophenol	--	--	2.6 J	--
Dibenzofuran	--	--	--	--
Fluorene	--	--	3.9 J	0.37 J
4-Nitroaniline	--	--	--	--
N-Nitrosodiphenylamine	--	0.22 J	--	--
Hexachlorobenzene	--	1.1 J	--	--
Pentachlorophenol	--	0.8 J	0.945	--
Phenanthrene	0.43	0.19 J	15 J	0.81 J
Anthracene	--	--	--	0.5 J
Fluoranthene	0.68	0.6 J	11 J	4.8
Pyrene	0.55	1.4 J	13 J	4.5
Benzo(a)anthracene	0.26 J	--	0.43 J	3.3
Chrysene	0.28 J	1.7 J	1.2 J	4.4
Benzo(b)fluoranthene	0.29 J	1 J	3.4 J	7.5
Benzo(k)fluoranthene	--	--	1.5 J	0.92
Benzo(a)pyrene	0.21 J	0.54 J	1.6 J	4.5
Indeno(1,2,3-cd)pyrene	--	0.57 J	1.4 J	4.3
Dibenz(a,h)anthracene	--	0.96 J	1.6	4
Benzo(g,h,i)perylene	--	--	0.39 J	1.5
PESTICIDES/PCB'S (ppm)				
4,4'-DDE	--	--	--	--
4,4'-DDD	--	--	--	--
4,4'-DDT	--	--	--	--
Toxaphene	--	--	--	--
Aroclor-1242	--	--	--	--
Aroclor-1248	--	21 C	480 C	8.7
Aroclor-1254	--	71 C	141 C	11
Aroclor-1260	--	24 C	66 C	7.8 J
INORGANICS (ppm)				
Arsenic	3 *	76 R	21	33 R
Barium	130	732	17300	1700
Cadmium	--	31	36	42
Chromium	8	206	153	68
Cobalt	4	27	11	10
Copper	10	11400 *	15300 *	6640 *
Lead	34	2030	1460	975
Mercury	9 *	5.62	1.68	2.81
Nickel	11	765 R*	1520 R	1290 R
Selenium	--	3.3	4.1	2.5
Vanadium	--	25	48	36
Zinc	65	3420	11900	15600

SAUGET SITES AREA #1: SITES G, H, I, L, M — Table 2-5

MAXIMUM GROUNDWATER CONC. AT:	G		H		I		L		M	
VOLATILES (ppb)										
Vinyl Chloride	--		--		790		--		--	
1,2-Dichloroethene(total)	110		--		640		--		--	
1,1-Dichloroethene	--		--		10		--		--	
Carbon Disulfide	--		--		--		--		3	J
Chloroform	9		3000		110	J	730		2	J
1,1-Dichloroethane	--		--		120		--		--	
1,2-Dichloroethane	480		--		--		--		--	
2-Butanone (MEK)	560		--		--		--		--	
1,1,1-Trichloroethane	51	J	--		--		--		--	
Trichloroethene	800		--		270		--		--	
Benzene	4100		4300		1400		150		--	
4-Methyl-2-Pentanone	2200		3600		230	J	270	B	--	
Tetrachloroethene	420		--		470		--		--	
Toluene	7300		7300		740		790	B	1	BJ
1,1,2,2-Tetrachloroethane	--		--		--		--		--	
Chlorobenzene	3100		11000		3100		--		--	
Ethylbenzene	840		210		190		--		4	J
Styrene	--		--		--		--		2	J
Xylene(total)	400		120	J	58		--		--	
SEMIVOLATILES (ppb)										
Phenol	30000		--		1800		150		--	
2-Chlorophenol	1900		--		370		150		--	
1,3-Dichlorobenzene	--		--		110		--		--	
1,4-Dichlorobenzene	570		--		910		--		--	
1,2-Dichlorobenzene	200	J	--		220	J	--		--	
Benzyl alcohol	8600		--		350		--		--	
Methylphenol	--		--		--		--		--	
2-Methylphenol	810		--		76		6	J	--	
4-Methylphenol	9000		--		350		75		--	
N-nitroso-di-n-propylamine	--		800		--		--		--	
2,4-Dimethylphenol	4300		--		--		--		--	
Benzoic Acid	15000	E	--		--		--		--	
Bis(2-chloroethoxy)methane	7300		--		2900		--		--	
2,4-Dichlorophenol	480	J	--		1000		--		--	
1,2,4-Trichlorobenzene	1900		--		2700		--		--	
Naphthalene	18000		--		230		--		--	
4-Chloroaniline	--		30		15000	E	60		--	
4-chloro-3-methylphenol	--		--		140	J	--		--	
2-Methylnaphthalene	--		--		9	J	--		--	
2,4,6-Trichlorophenol	350		--		290		--		--	
Dimethylphthalate	--		8	J	--		--		--	
Dibenzofuran	--		6	J	--		--		--	
Diethylphthalate	--		22	J	--		--		--	
4-Chlorophenyl-phenylether	--		20	J	--		--		--	
Fluorene	--		25	J	--		--		--	
N-Nitrosodiphenylamine	--		800		--		--		--	
Pentachlorophenol	6300		2400		650		--		--	
Phenanthrene	--		15	J	--		--		--	
Benzo(a)anthracene	32		--		--		--		--	
Chrysene	6	J	--		--		--		--	
Bis(2-ethylhexyl)phthalate	24		24	J	--		--		--	
Di-n-octyl phthalate	--		--		--		--		4	J
PESTICIDES/PCB'S (ppb)										
Alpha BHC	70	C	--		--		--		--	
Aroclor-1260	890		--		--		--		--	
INORGANICS (ppb)										
Aluminum	85		11800		--		--		--	
Arsenic	178		8490		20		14000		26	
Barium	610		173		958		--		292	
Cadmium	--		--		--		32		--	
Chromium	41		758		--		--		--	
Cobalt	588		--		--		84		--	
Copper	--		2410		--		--		115	
Lead	--		--		--		--		--	
Mercury	2.1		--		--		--		0.2	
Nickel	349		17200		95		111		--	
Selenium	--		--		--		--		--	
Vanadium	--		--		--		159		--	
Zinc	129		6864		26		2210		--	
Cyanide	157		480		--		--		--	

Site M groundwater samples were collected from nearby private wells.

Table 2-4 and Table 2-5 Qualifiers: J-estimated value; E-value exceeded calibration range; C-value confirmed by GC/MS; R-rejected data; *-duplicate analysis not w/in control limits.

The air samples were collected by IEPA's contractor over a 2-day period. On July 16 and 17, 1987, air monitors were placed at six locations around Sites G and CS B. The analysis of these samples revealed the presence of organic contaminants during each day of sampling. The first day of sampling documented a release of PCB's, naphthalene, 2-nitroaniline, fluorene and pyrene. Only PCB's were detected on the second day. PCB's were found in all but two of the samples (the background and the sample across Queeny Avenue). The following maps and table from the report, summarizes this data.

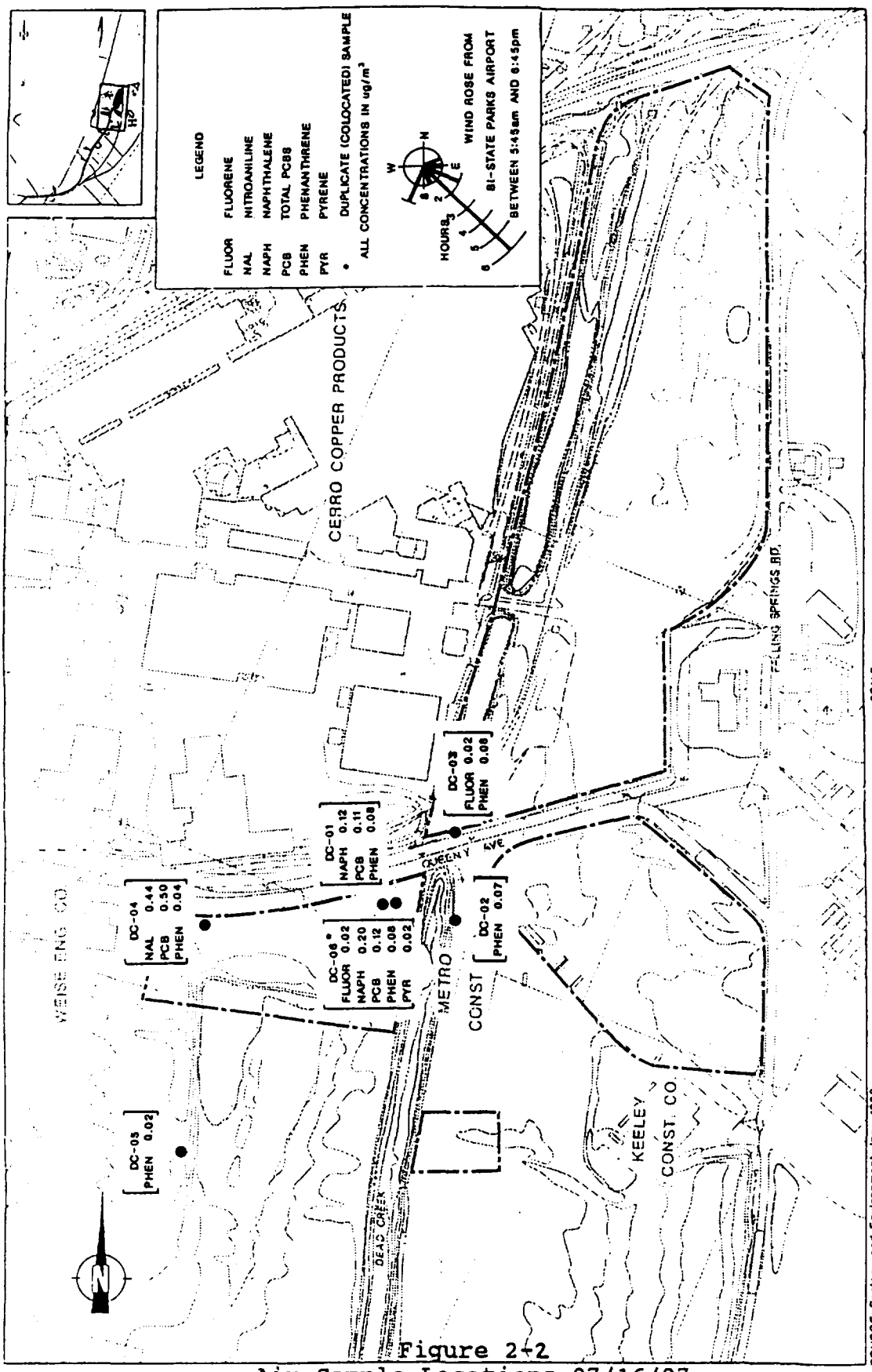


Figure 2-2
Air Sample Locations 07/16/87

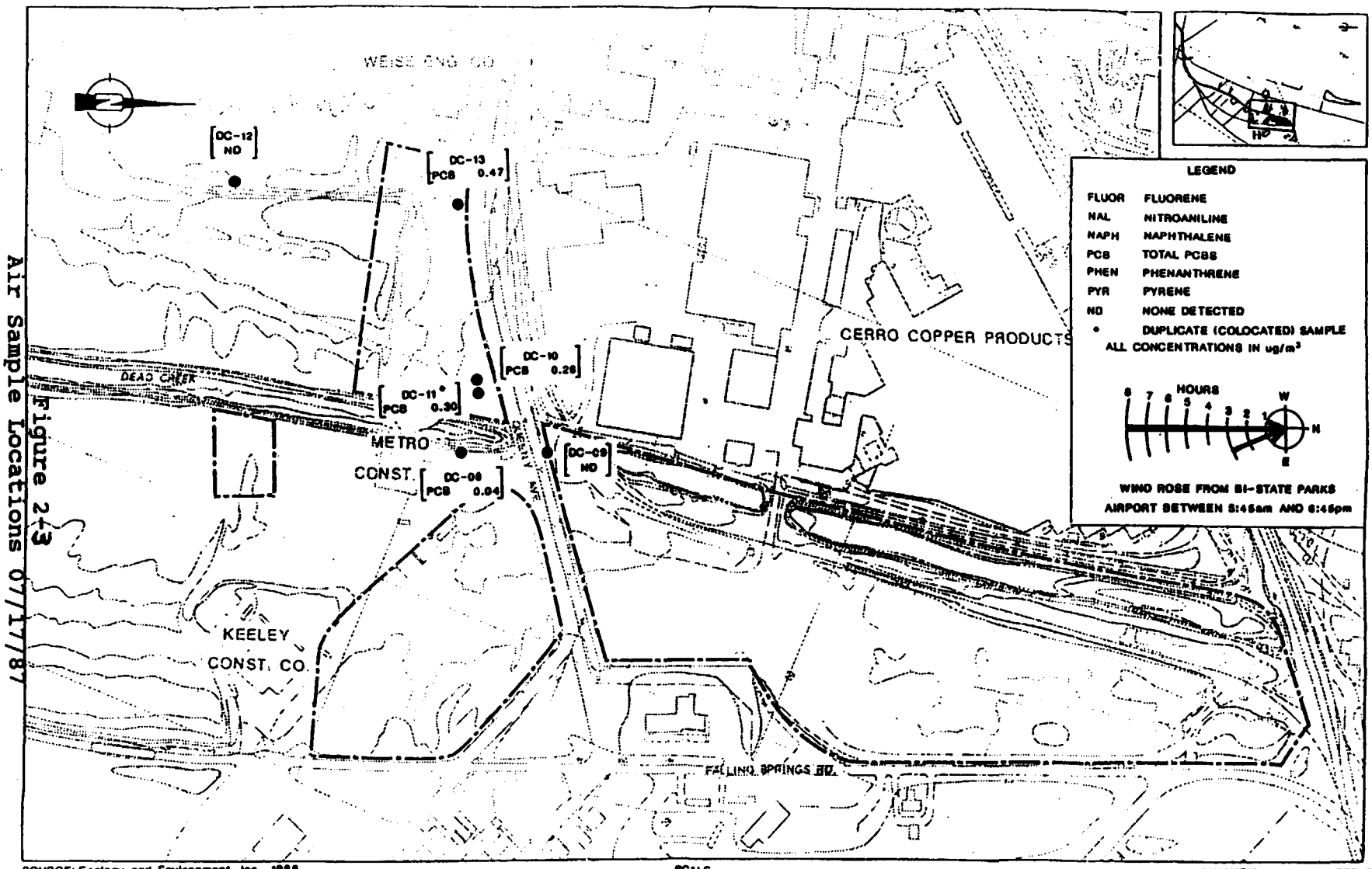


Figure 2-3
Air Sample Locations 07/17/87

Table 2-6
Air Sample Results from Site G and CS B

SUMMARY OF AIR SAMPLING RESULTS FOR SITE G/CS-B

Compound	Sample Number													
	DC-01†	DC-02	DC-03	DC-04	DC-05	DC-06†	DC-07*	DC-08	DC-09	DC-10†	DC-11†	DC-12	DC-13	DC-14*
benzene	74JB	80JB	63JB	NA	75JB	118JB	17JB	67JB	51JB	66JB	101JB	70JB	NA	15JB
naphthalene	0.12	--	--	--	--	0.20	--	--	--	--	--	--	--	--
phenanthrene	0.08J	0.07J	0.08J	0.04J	0.02J	0.08J	--	--	--	--	--	--	--	--
2-methylnaphthalene	--	--	0.03J	--	0.02J	0.02J	--	--	--	--	--	--	--	--
isophorone	--	--	--	--	0.02JB	0.01J	--	--	--	--	--	--	--	--
n-nitrosodiphenylamine	--	--	--	0.02J	0.02J	0.05J	--	--	--	--	--	--	--	--
fluorene	--	--	0.02J	--	--	0.02J	--	--	--	--	--	--	--	--
2-nitroaniline	--	--	--	0.44	--	--	--	--	--	--	--	--	--	--
benzyl alcohol	--	--	--	--	--	0.05J	--	--	--	--	--	--	--	--
fluoranthene	--	--	--	--	--	0.01J	--	--	--	--	--	--	--	--
pyrene	--	--	--	--	--	0.02J	--	--	--	--	--	--	--	--
Aroclor 1248	0.11	--	--	0.15	--	0.12	--	0.04	--	0.26	0.30	--	0.12	--
Aroclor 1254	--	--	--	0.18	--	--	--	--	--	--	--	--	0.18	--
Aroclor 1260	--	--	--	0.17	--	--	--	--	--	--	--	--	0.17	--
chromium	--	--	--	--	--	0.08	--	--	--	--	--	--	--	--
copper	0.94	0.67	0.66	0.71	0.35	0.73	--	0.87	0.78	0.62	0.76	0.38	0.67	--
lead	0.08	0.09	0.09	0.08	0.08	0.08	--	0.77	0.64	0.56	0.67	0.04	0.04	--
zinc	0.20	0.32	0.31	0.13	0.13	0.18	--	0.56	1.43	0.28	0.92	0.08	0.11	--

All results in ug/m^3.
Samples DC-01 through DC-07 collected 7/16/87. Samples DC-08 through DC-14 collected 7/17/87.
* Blank samples - results reported in ug per sample medium (filter, cartridge).
† Duplicate (collocated) samples.
J Indicates estimated value. Result is less than the specified detection limit, but greater than zero.
B Compound also found in blank sample.
NA Not analyzed.
-- Not detected.

Source: Ecology and Environment, Inc. 1988.

Mississippi River fish have also been studied downstream of the Sites. In a 1982 US Food and Drug Administration (FDA) study, 7 fish specimens caught near or below St. Louis were found to contain up to 1 part per million (ppm) chloronitrobenzenes. The specific residues found included 2-, 3- and 4-chloronitrobenzene and 2,3- and 3,4-dichloronitrobenzene.

In 1990, two fish specimens were collected adjacent to Sauget by the Illinois Department of Conservation for USEPA. The results of this study show that dioxin and furan isomers have bioaccumulated in the fish tissues at a total effective concentration (TEC) of 10.88 and 8.18 picograms per gram (pg/g). The levels are well above the nearest upstream (Illinois side) sample location where the TEC level was 1.73 pg/g in a comparative fish caught at Quincy, Illinois. The nearest upstream locations (West Alton, Missouri fish with TEC's of 7.99 and 0.50) are not considered comparative due to the confluence action of the Missouri and Mississippi Rivers.

2.5 APPLICATION OF OTHER STATUTES

None of the Area #1 Sites have been regulated as RCRA units because most of the waste disposal occurred previous to environmental regulations.

3. SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures utilized and observations made during the CERCLA SSI, conducted at Sauget Sites Area #1. Specific portions of this section contain information pertaining to the reconnaissance inspection, field sampling procedures and key analytical results. The SSI for the Area #1 Sites was conducted in accordance with the work plan which was developed and submitted to USEPA Region V, prior to the initiation of field activities.

USEPA's Potential Hazardous Waste Site Inspection Report (Form 2070-13) for each of the Sites is located in Appendix C of this report.

3.2 SITE REPRESENTATIVE INTERVIEWS

The site representative interview was conducted on March 13, 1991 between IEPA's team of Tim Murphy, Paul Takacs, Mara McGinnis and the Village of Cahokia's Mayor Mike King. The purpose of the meeting was to gain access agreements and gather additional information on Dead Creek as it flows through Cahokia. Other spontaneous interviews took place during the SSI sampling with local residents living along the creek.

3.3 RECONNAISSANCE INSPECTION

The Area #1 CERCLA site reconnaissance inspection was conducted after the March 13, 1992 interview by this author and the other IEPA officials. The major focus of the

reconnaissance inspection was the potential targets impacted by Dead Creek south of Judith Lane (CS C-F). Some of the homeowners living along-side Dead Creek, mow and maintain the creek bed. Other residents are not as caring. Certain areas of Dead Creek were littered with trash and small oil-like sheens were noted in CS C and D. Most of Dead Creek appeared to be a wetland. Figure 3-1 on page 3-3 of this report, shows the Area #1 sources of contamination with relation to Dead Creek as it flows through Cahokia.

After the reconnaissance, the IEPA officials stopped into the East Side Health District in Washington Park. Ema Locket provided seven sample data forms from Cahokia residents concerned with safe drinking water from their private wells. The sample forms have been included as Appendix J of this report.

During the reconnaissance visit, it was determined that Modified Level D inspection attire could be worn during the sampling activities. Level C (air purifying respirator) equipment would also be brought along for use if air monitoring equipment detected significant concentrations over background or if other threatening conditions ensue.

3.4 SAMPLING PROCEDURES

Samples were collected by IEPA personnel throughout the downstream segments of Dead Creek which were not previously sampled. Samples were also collected from private wells and yards of Cahokia residents closest to the Area #1 Sites. Each of the samples were analyzed for compounds and analytes

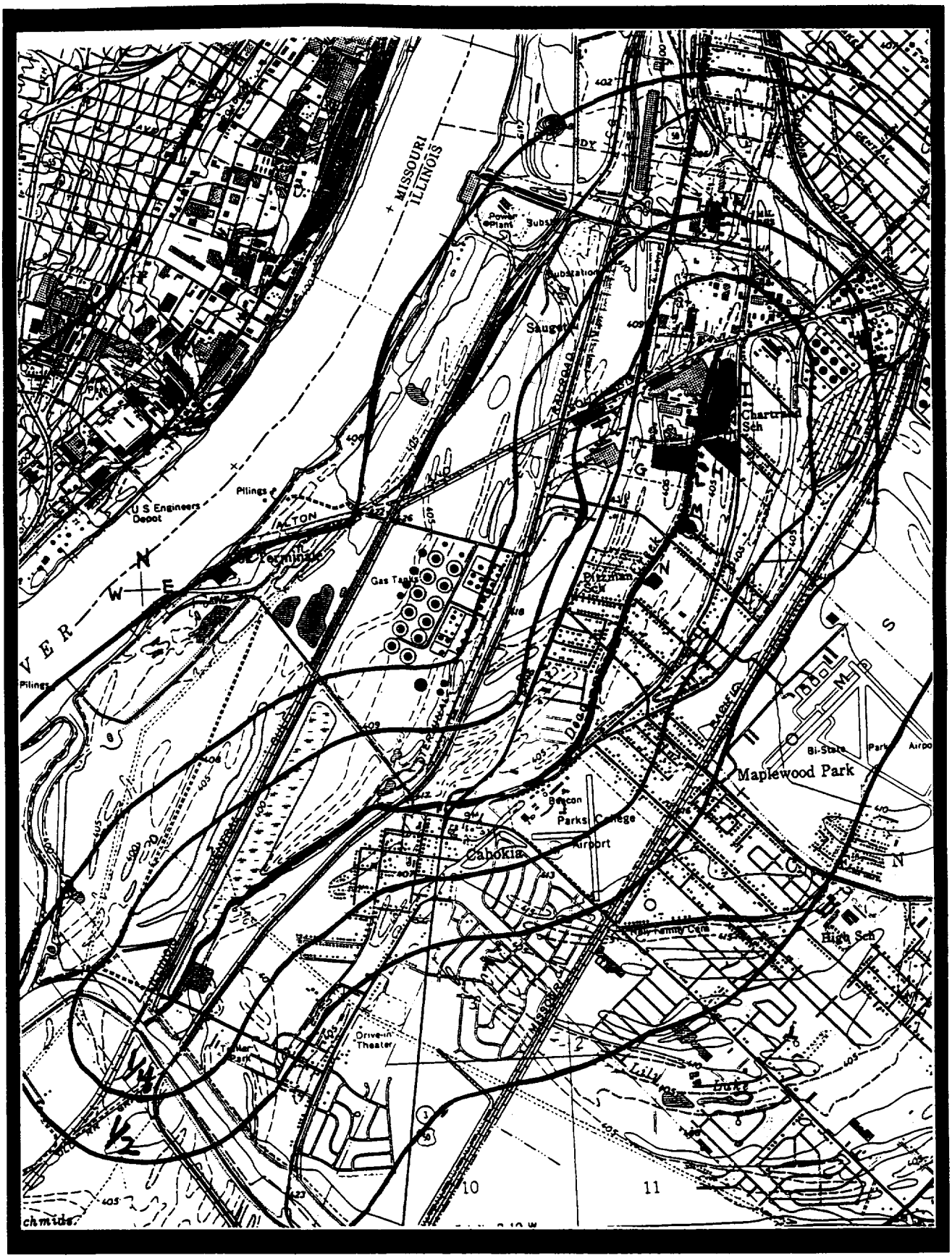


Figure 3-1
Site Features

from USEPA's Target Compound List (TCL). The current list of compounds on the TCL is provided in Appendix D.

On March 27 and 28, 1991, IEPA collected five groundwater samples and thirteen soil/sediment samples. Figure 3-2 on page 3-6 of the report depicts the locations of the eighteen sample points.

3.5 GROUNDWATER SAMPLING PROCEDURES

Four private wells close to the Sites were sampled to determine if documented contaminants in Area #1 groundwater were effecting these sources of drinking water. A private well south of Parks College was sampled as a representation of existing background conditions. Each well was purged through a hose but sampled at the spigot. The wells were purged for a minimum of 20 minutes before directly filling each of the eleven sample containers. Preservatives were then added to the appropriate inorganic containers. The following table lists each of the private well locations.

Table 3-1

Groundwater Sample Descriptions

Sample	Owner	Well Depth	Address	Nearest Site/ Distance
G201	B. Settle	26'	102 Judith Ln	CS C/250' W
G202	W. Schmidt	49'	104 Judith Ln	CS C/350, W
G203	J. Ballett	~20'	3300 Falling Springs Rd	Site M/1000' W
G204*	H.E. Kearby	30'	144 St. James St	CS E/1800' NW
G205	W. Allen	17'	101 Walnut St	Site M/15' W

E-east, N-north, W-west, S-south, Ave-avenue, St.-Saint, St-Street, Rd-Road, ~-approximately, '-feet, *-background

3.6 SOIL/SEDIMENT SAMPLING PROCEDURES

IEPA collected four soil samples from private yards, seven samples from Dead Creek and two samples from the Old Prairie Dupont Creek (which Dead Creek flows into) for a total of thirteen soil samples (see Figure 3-2 for locations). Two of the thirteen samples were collected as background representatives. The background sediment sample was collected in the Old Prairie Dupont Creek, 200 feet upstream of the Dead Creek confluence. The background soil sample and the background groundwater sample were collected from the same yard. Table 3-1 describes each of the thirteen soil and sediment samples, listing their depth, physical appearance and location.

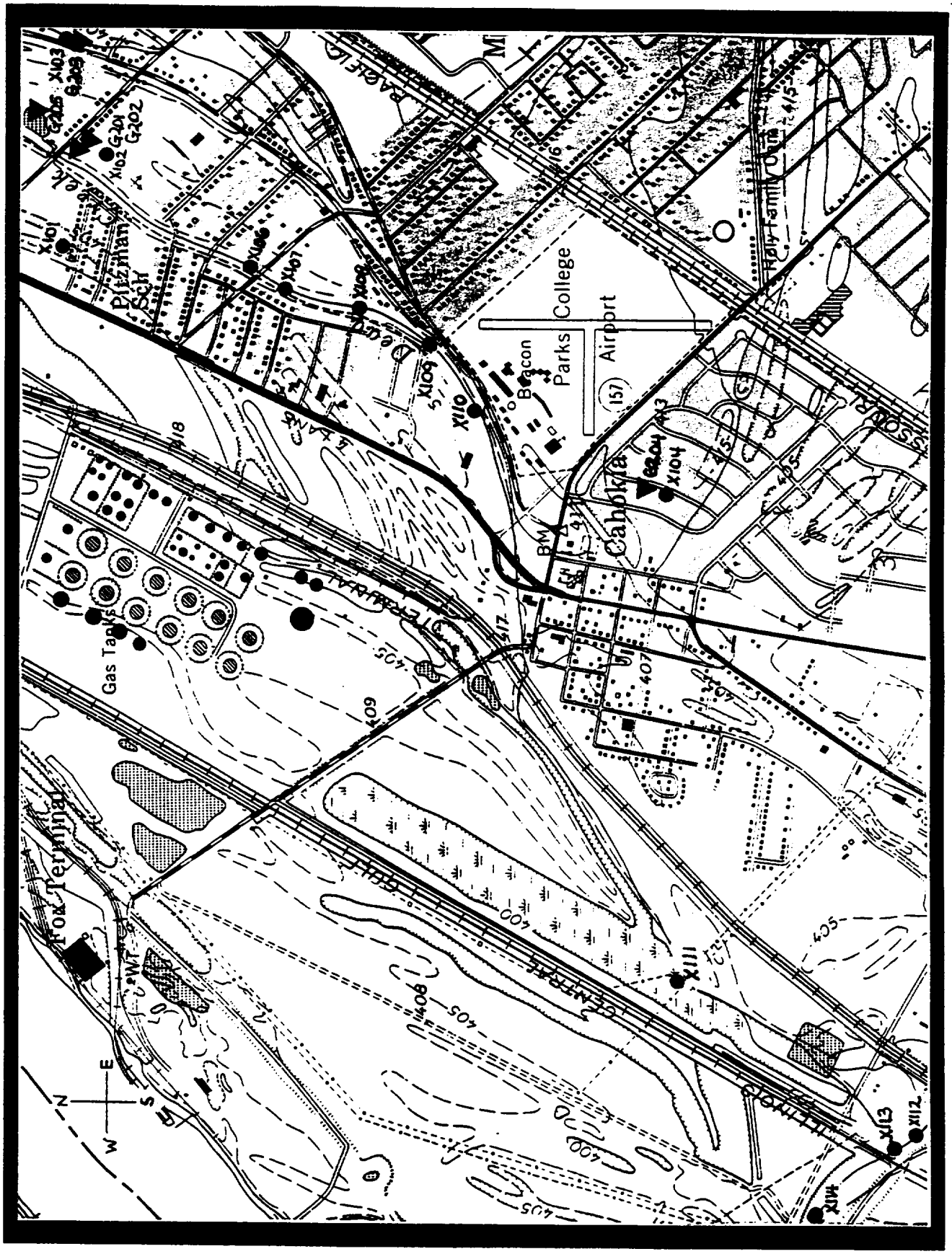


Figure 3-2
Soil/Groundwater Sample Location Map

Table 3-2

Soil Sample Descriptions

Sample	Depth	Appearance	Location
X101	0-6"	brn/org	Vernon Shepard property, 25 David St. next to fence on the N side of yard
X102	0-6"	blk/org	William Schmidt property, 104 Judith Ln. S central portion of yard
X103	0-6"	brn/org	John Ballett property, 3300 Falling Springs Rd. NW corner of front yard
X104* soil	0-6"	brn sand loam	H.E. Kearby property, 144 St. James St. SE central side of back yard
X106	0-1.5' 3'H2O	silty sed	center of Dead Creek behind the Repair Garage on Jerome St.
X107	0-1.5' 2'H2O	silty sed	center of Dead Creek behind the residence at 3809 White St. perpendicular to the center of the home
X108	1-2' 1'H2O	silty sed	Dead Creek at the S end of the culvert by the VFW Hall
X109	0-1' 6"H2O	sandy sed	center of Dead Creek at the Parks College/trailer park property line
X110	0-1' 4"H2O	sandy sed	center of Dead Creek 5' from the N end of the culvert at Parks College
X111	0-1.5' 1'H2O	brn silt to sand	center of Dead Creek in wetlands adjacent to N power line pole base
X112* sediment	0-1.5' 2'H2O	silty clay	N bank of Old Prairie Dupont Creek 200' upstream of the Dead Creek confluence
X113	0-2.5' 1.5'H2O	blk sludgy sed	center of Dead Creek at confluence of Old Prairie Dupont Creek
X114	0-2' 3'H2O	clay silt	W bank of Old Prairie Dupont Creek approx. 1200' downstream of Dead Creek confluence

brn-brown, blk-black, org-organic, '-feet, "-inches, H2O-water, N-north S-south, E-east, W-west, rd-road, *-background samples.

3.7 DECONTAMINATION PROCEDURES

Standard IEPA decontamination procedures were followed prior to the collection of all samples. All sampling equipment had previously been decontaminated at the IEPA warehouse prior to its transport to the site.

Decontamination procedures include the cleaning of all sampling equipment with a liquid Alconox solution, rinsing with hot tap water, spraying with an acetone/distilled water mix, and finally rinsing with double distilled, deionized water. The sampling equipment was air dried and wrapped with aluminum foil for its use in the field sampling activities.

3.8 ANALYTICAL RESULTS FROM IEPA COLLECTED SAMPLES

Chemical analysis of groundwater samples collected from the private wells revealed the presence of certain inorganic analytes, and several volatile organic compounds. Analysis of soil/sediment samples collected in the lower creek segments revealed the presence of volatiles, semi-volatiles, pesticides, PCB's, heavy metals, common laboratory artifacts, and common soil/sediment constituents. Significant concentrations of organic compounds were detected in certain sediment samples within Dead Creek.

3.9 KEY SAMPLE RESULTS

The key analytical results of the Sauget Sites Area #1 CERCLA Screening Site Inspection are tabled on the following page. The key samples list only the analytically significant compounds and analytes based on USEPA draft guidance on the use of estimated data.

Table 3–3
KEY SAMPLE DATA SUMMARY

SAMPLING POINT	Bg. GW G204	G201	G205	Bg. Soil X104	X101	X102	X103
LOCATION	H.Kearby 30'@ 144 St. James St.	B.Settle 26'@ 102 Judith Ln.	W.Allen 17'@ 101 Walnut St.	H.Kearby SE Yd @ 144 St. James St.	V.Shepard N Yd @ 25 David St.	W.Schmidt S Yd @ 104 Judith Ln.	J.Ballett NW @ 3300 F.Springs Rd.
PARAMETER							
VOLATILES ppb							
Chlorobenzene	--	--	--	--	--	--	--
SEMIVOLATILES ppb							
Pyrene	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--
PESTICIDES/PCB's ppb							
4,4'-DDE	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--
gamma-Chlorodane	--	--	5.02	200	706	--	--
Aroclor-1254	--	--	--	--	--	--	--
Aroclor-1260	--	--	--	--	--	--	--
INORGANICS water-ppb soil/sed-ppm							
Arsenic	--	--	--	--	--	--	--
Barium	--	--	--	--	--	--	--
Cadmium	--	--	--	0.8	B 4.9	--	8.5
Calcium	--	--	11900	--	--	--	--
Chromium	--	--	--	19.5	31.9	26.6	38.7
Cobalt	--	6.2	--	--	--	--	--
Copper	--	--	75	18.7	110	125	167
Lead	3.3	--	11	51	--	276	202
Magnesium	--	--	--	--	--	--	--
Mercury	--	--	--	--	0.07	0.07	0.2
Nickel	--	--	--	--	--	--	--
Zinc	38	580	658	161	575	--	738

Table 3-3 (cont)
KEY SAMPLE DATA SUMMARY

SAMPLING POINT	Bg. Sed. X112	X106	X107	X108	X109	X110	X111
LOCATION	OPDupont Up 200' Confluence	CS D Garage Jerome St	CS E Res 3809 White St	CS E Culvert VFW	CS E Border Parks C.	CS E Culvert Parks C.	CS F Wetland Pow. Line
PARAMETER							
VOLATILES ppb							
Chlorobenzene	--	--	120	--	--	--	--
SEMIVOLATILES ppb							
Pyrene	--	--	5300	--	--	--	--
Benzo(b)fluoranthene	--	--	2400	--	--	--	--
Chrysene	--	--	2800	--	--	--	--
PESTICIDES/PCB's ppb							
4,4'-DDE	--	--	--	--	--	--	97
Endrin	--	151	975	--	--	--	66
Endosulfan II	--	210	--	--	--	--	203
gamma-Chlorodane	--	--	--	--	--	--	--
Aroclor-1254	--	6955	45653	--	--	--	4486
Aroclor-1260	--	--	14273	--	--	--	862
INORGANICS water-ppb soil/sed-ppm							
Arsenic	2.2 B J	11.2	30.3	10.1	12.2	11.3	19.5
Barium	135	--	3690	--	--	--	--
Cadmium	--	3.9	23.1	21.9	11.8	1.9	23.5
Calcium	3650	22200	83400	66200	--	55300	--
Chromium	20.2	--	105	--	--	--	--
Cobalt	--	--	--	--	--	--	18.8
Copper	10.4	149	8540	1160	404	108	520
Lead	7.7	209	1270	235	140	440	83
Magnesium	2390	--	7890	7750	--	--	--
Mercury	--	0.2	1.53	1.27	0.62	0.32	0.34
Nickel	14	78.5	2130	134	391	56	772
Zinc	44.7	704	9970	1740	3140	382	4520

Qualifiers: J-estimated value; B-value reported is < CRDL but > IDL.

4. SOURCES OF CONTAMINATION

4.1 INTRODUCTION

This section discusses the sources of contamination identified at Sauget Sites Area #1. Information concerning the size and volume of each source has been derived from the E&E investigation financed by IEPA.

4.2 SITE G

Site G is a 4.5 acre disposal area littered with drums (approximately 30), demolition debris and junk. It is located in Sauget, south of Queeny Avenue and east of Dead Creek. South of Site G, there is a cultivated field, while Wiese Engineering is west of the site. Within the western portion of the fenced site, there is a mounded area where several corroded drums are jutting from the surface. Two small pits with oily/tar-like waste are in the northeast and east-central portions of the site. Some areas where the waste is not exposed, cinder material and fly ash have been used as cover.

Boring logs at Site G reveal 3 to 12 feet of fill material overlying 15 to 25 feet of waste. The maximum depth of waste was found to be 36 feet. Below the waste, is extensively stained sand associated with the lower Cahokia Alluvium or the upper Henry Formation.

Analytical results from surface soil samples collected from 32 grid sections in the central portion of Site G show an average total organic concentration of 5,096 mg/kg. Using the top six inches of soil, a volume of 1,489 cubic yards of

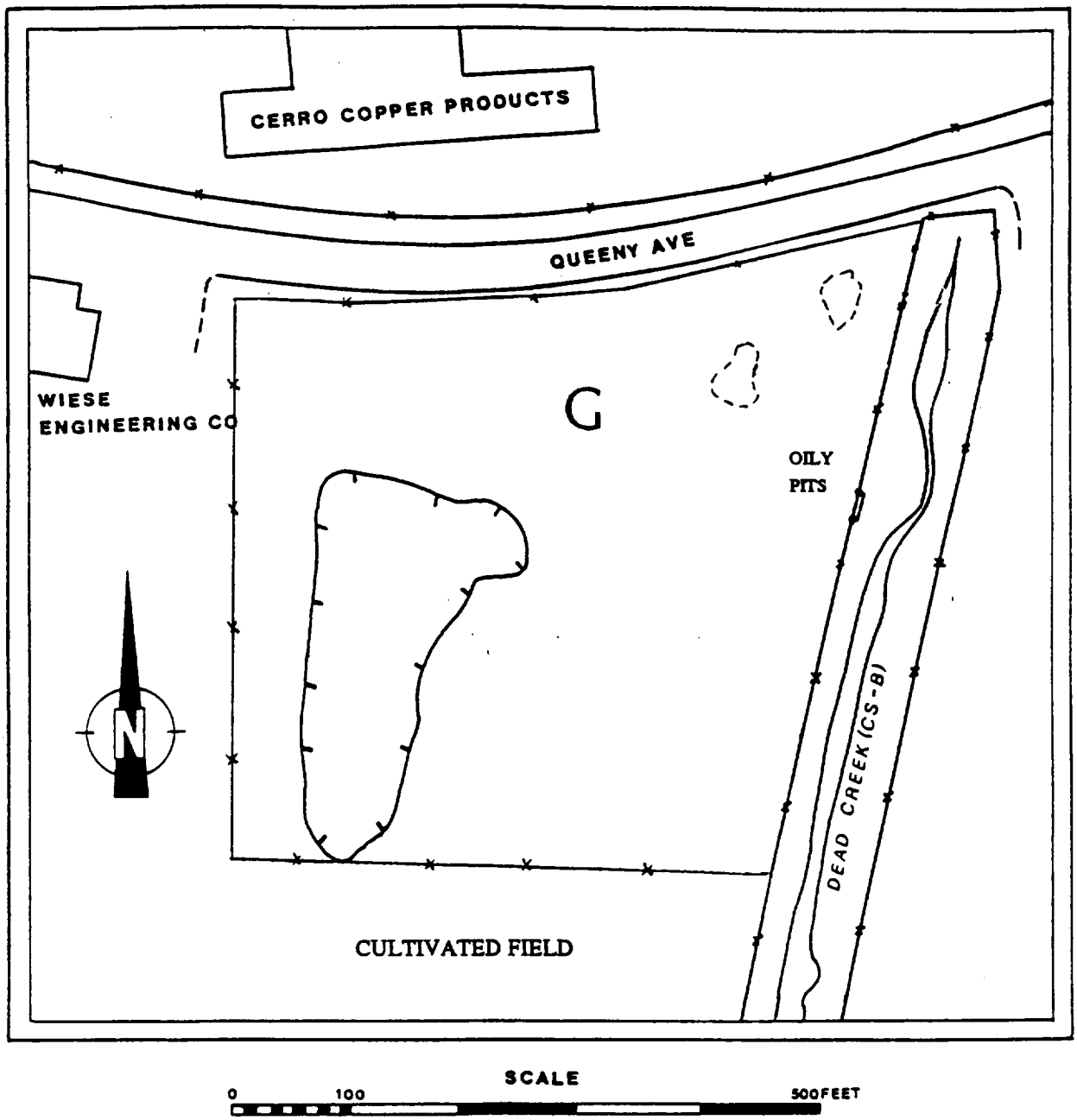


Figure 4-1
Site G and Northern CS B

waste and fill material has been calculated.

Based on the depths and thickness of the waste along with the horizontal distances between the borings, a total volume of approximately 60,000 cubic yards of contaminated waste and fill material is present in the subsurface of Site G. The average total organic concentration of this material is 4,406 mg/kg based on three samples from the waste zone. The volume calculation does not include the contaminant concentration of the stained sand below the waste.

4.2 SITES H & I

Sites I and H are known collectively as the Sauget-Monsanto Landfill. The sources are connected at "old" Queeny Avenue and are approximately 26 acres in size. The inactive landfills are located along Falling Springs Road, north and south of Queeny Avenue in Sauget. The site is delineated by Falling Springs Road on the east, the Alton and Southern Railroad to the north, Dead Creek Segment A and Metro Construction Company on the west. There is no boundary delineation to the south, however, the landfill extends approximately 1250 feet south of the intersection of "new" Queeny Avenue and Falling Springs Road.

Historical aerial photographs show operations existing prior to 1936. Title information shows Leo Sauget as principal owner from late 1931 and alledgedly the operator. Previous to it's use as landfills, the site was a series of sand and gravel pits. According to two "Notification of

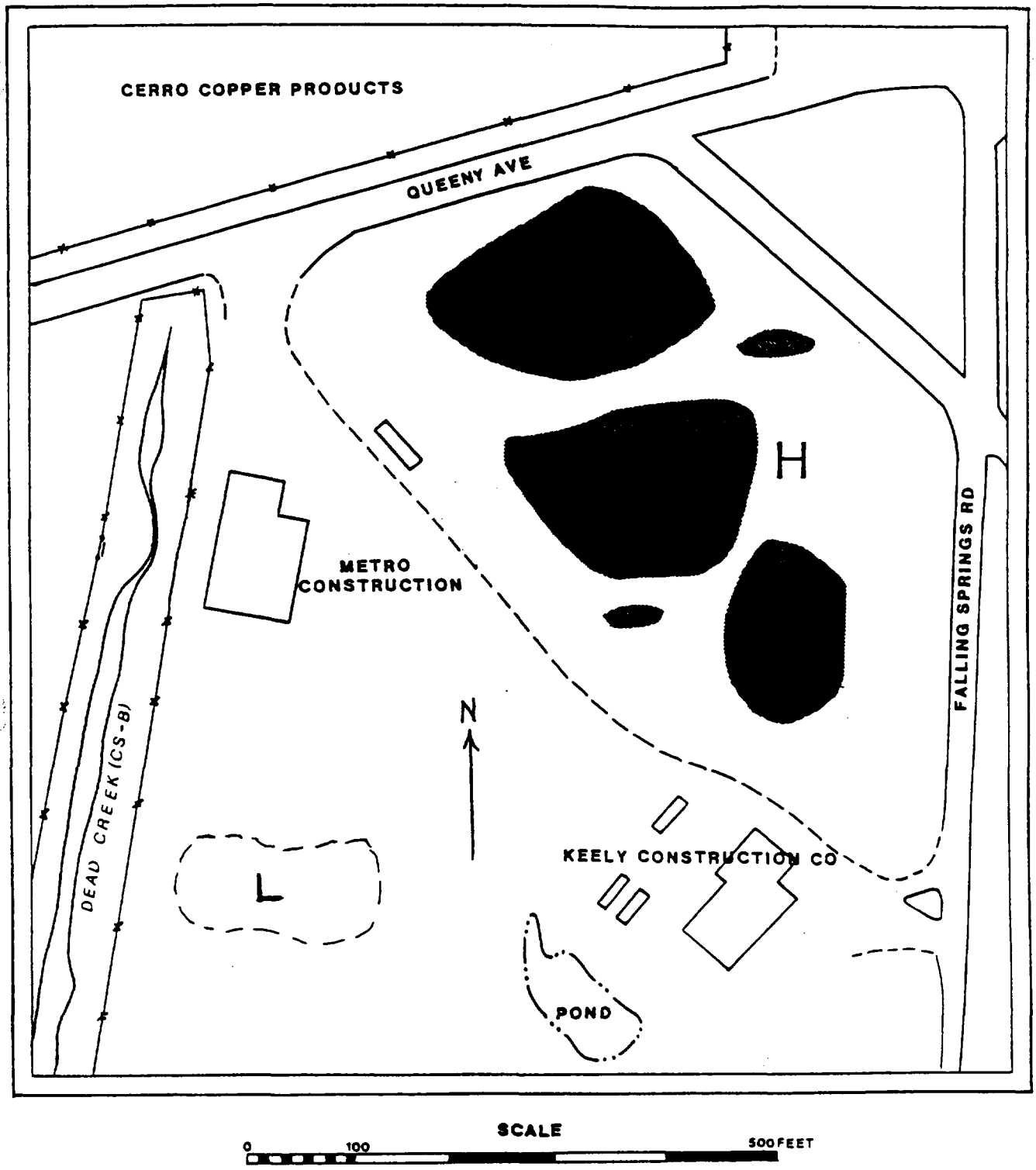


Figure 4-2
Site L, H and Northern CS B

Hazardous Waste Site" forms (103[c]) submitted by the Monsanto Company to the USEPA, the site accepted chemical wastes from the company's Queeny and Krummrich plants in St. Louis and Sauget, respectively. Aerial photographs also show landfilling activity decreasing by the late 1950's, consistant with Monsanto's 103(c) submittal.

Site H has been graded and is sparsely vegetated. Several depressed areas are evident across the site. Surface drainage is toward the west, Dead Creek. Other than slag, waste material is not present on the surface of the site. However, there are several rusted-out drums that are present on the surface. There are no barriers present to control access to the site.

At Site H, 2.5 to 13 feet of the fill material is described in the eight borings taken across the site. The differences in the fill thickness suggest the entire site has been reworked as a result of the activities related to the disposal pit. The waste materials found in six of the eight borings consisted of multi-colored sludges, solids and oily refuse underlying the fill. The waste is 20 feet at its thickest in the central portion of the site. Below the disposal pit waste, there is staining to the Cahokia and Henry formation sands. Waste materials are below the water table which averages 10 feet below the ground surface.

Site I has been graded, covered with rock, and is used by its current owner, Cerro Copper Products, to park trailers and machinery. Access to Site I is barred by an eight foot

chain-link security fence and is monitored by cameras at all times. Access to the site is through Cerro Copper.

The eleven borings at Site I identified two disposal pits. The largest of the two pits is located south of the access road from the Cerro Copper Products plant road (the old Queeny Avenue). This pit was connected with the Site H until the new Queeny Avenue was built. The smaller pit is located north of the access road. Both pits are at least 23 to 25 feet deep. Fill material ranges from 3 feet outside the disposal pit areas to 13 feet covering both pits. The waste materials found below the fill consisted of oily sand, clay, wood and cinders mixed with occasional refuse such as cardboard, rubber and cloth. Each of the pits contained a sludge-like material and staining to the Cahokia Alluvium deposits below the waste. Waste materials are below the water table that averages 10 feet below the ground surface.

Based on the depth and thickness of the waste material together with the distance between the boring locations across Sites I and H, a total volume of 200,000 cubic yards of contaminated waste and fill material is found in the south pit while the smaller pit has a total volume of 50,000 cubic yards. Based on the analytical results of the samples collected from the waste zone of the south pit, the average total organic contamination concentration of the material is 12,218 mg/kg. In the north pit, the average total organic contamination concentration of the waste material is 6,300 mg/kg.

4.4 Site L

Site L is the former location of two surface impoundments used by Waggoner Trucking and later, Ruan Trucking. The hazardous waste transporters used the impoundments were used to dispose of wash water from truck cleaning operations by the hazardous waste transporters. The main impoundment was located 125 feet east of CS B and about 250 south of the Metro Construction Building. Historical photographs show dimensions of filled-in lagoon to be 150 feet by 70 feet. The site is now covered by black cinders and used by Metro Construction Company for equipment storage.

The second impoundment was identified in a historic air photograph. This impoundment was located farther east of the main lagoon and CS B. This impoundment has not been investigated.

IEPA calculated a rough estimate of the quantity of wash water disposed of at Site L between 1971 and 1978. The estimate of 164,000 gallons is based on the assumption that Ruan Trucking operated at the same volume as Waggoner Trucking (not HRS usable).

The four E&E borings determined that the impoundment had a depth of approximately 8 feet, was not lined and had a base of medium to coarse grained sands. The subsurface soil samples collected from Site L showed a total organic concentration range from 0.008 mg/kg to 120 mg/kg. Contaminants included benzene, toluene, phenols and arsenic.

In 1991, Monsanto Company contracted Geraghty & Miller

Environmental Services (G&M) to further investigate Sites L, M and CS B. G&M determined the dimensions at Site L to be slightly smaller than previously thought. The back-filled impoundment was 165 feet by 35 feet (7,600 square feet). G&M soil samples at Site L where more polluted then the E&E collected samples. The G&M analysis showed a greater concentrations of contaminants as well as previously undetected contaminants, including PCB's at 500 mg/kg in one sample. The Expanded Site Inspection for Sauget Sites Area #1 details the validated analytical findings of the G&M report.

4.5 Site M

Site M is a sand pit excavated by H.H Hall Construction Company in the mid to late 1940's. The pit is located on the east side of Dead Creek at the end of Walnut Street in Cahokia. The sand pit was mined prior to the residential development along Walnut Street. The dimensions of the pit are 220 feet by 320 feet (59,200 square feet). The water in the pit is up to 14 feet deep. Water can flow into or out of the pit through an eight foot opening which connects CS B with Site M. Presently Site M and CS B are surrounded by a chain-link fence. The current owner of Site M is Cahokia resident, Mr. Thomas Owen.

G&M results of Site M showed that approximately 3600 cubic yards of sediment have been impacted by PCB's (PCB's found above 50 mg/kg).

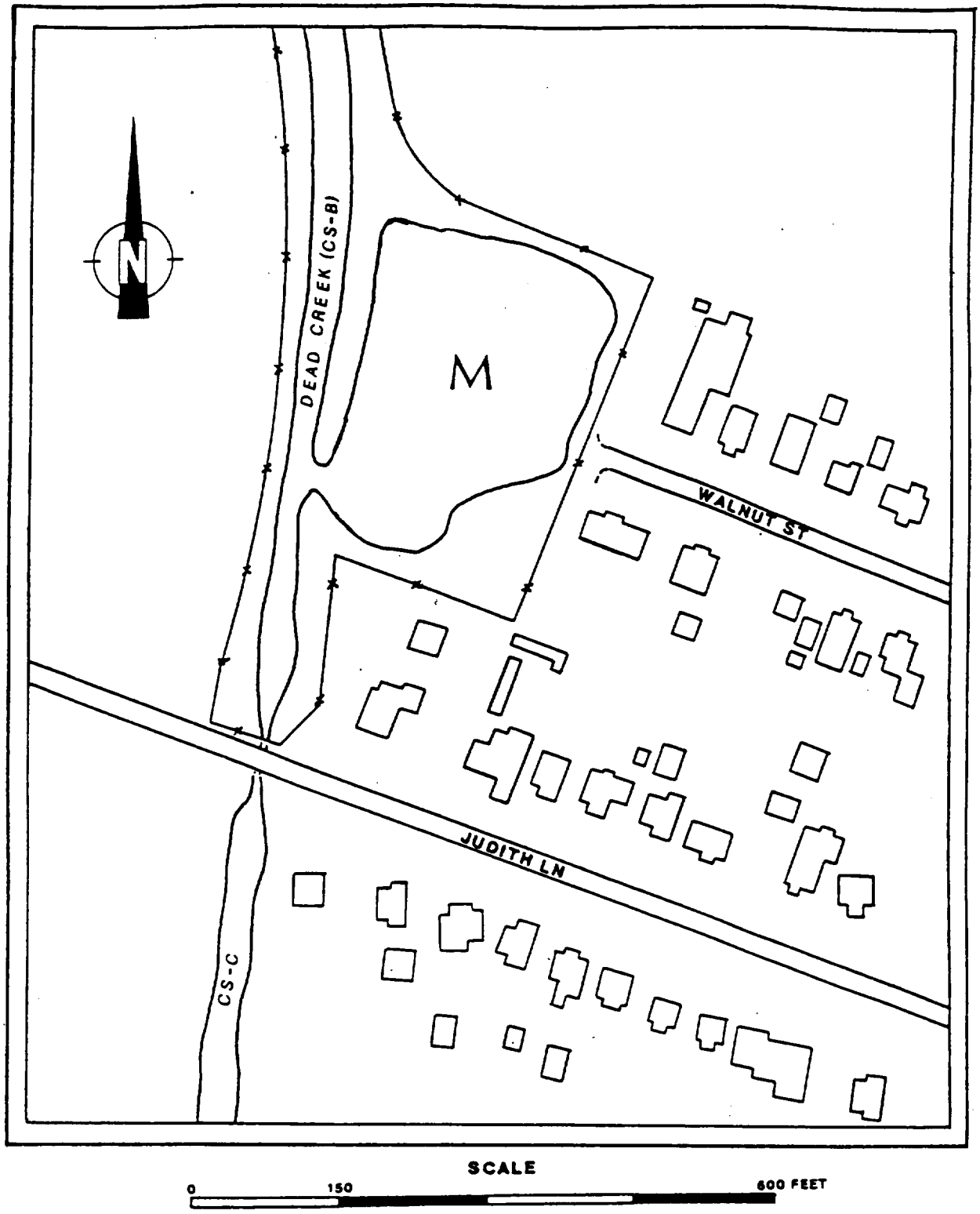


Figure 4-3
Site M, Southern CS B and Northern CS C

4.6 Site N

Site N consists of a filled barrow pit in the H.H. Hall Construction Company yard. The filled pit encompasses four to five acres in the southwest corner of the 23 acre yard. The site is located next to Dead Creek in a residential and commercial neighborhood of Cahokia. currently, Site N is filled and covered with rubble. Access to the entire construction yard is restricted by a chain-like fence.

Historical photographs indicated that the excavation at Site N began in the 1940's. The 1950 photographs show the presence of water in the pit. According to company officials, only concrete rubble and demolition debris were dumped into the pit.

E&E found no waste materials in either of the two borings at Site N. However, black and reddish-brown staining was noted on silt and sand samples from six to ten feet in one boring. The borings showed that the pit had been filled with concrete, rubber and demolition debris. Three to ten feet of this fill material was found overlying interbedded silty sand, sandy silt and fine sand typical of the Cahokia Alluvium.

Composite soil samples collected from the each of the two borings showed organic contamination of polyaromatic hydrocarbons (PAH's) with a total organic concentration of 3.6 mg/kg.

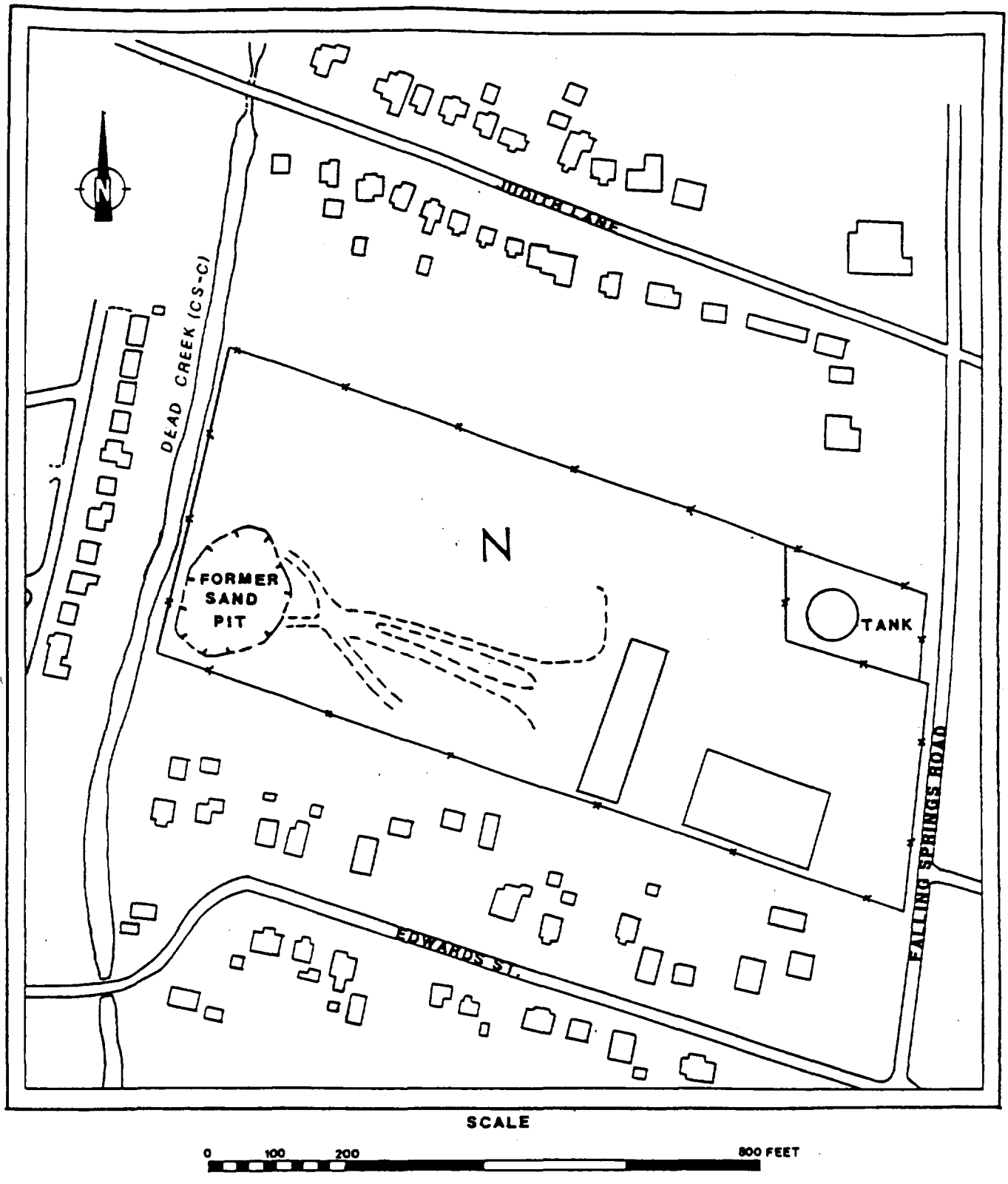


Figure 4-4
Site N and CS C

4.7 Dead Creek Segment A

The headwaters of Dead Creek are dubbed CS A. CS A is located just west of Site I on Cerro Copper property. The 1700 foot segment consisted of two holding ponds that were created when the Queeny Ave culvert was blocked off. In 1990, Cerro Copper remediated CS A, when 27,500 tons of contaminated sediments were removed to RCRA and TSCA regulated facilities.

During the remedial investigation, geologic profiles of CS A were obtained. The profiles were described as fill and fluidized creek bottom sediments. The fill material was tan to black, stained dry, sandy silt to silty sand, intermixed with concrete, bricks, road aggregate, rags, slag and vetreous pellets. It was often characterized by a chemical odor. The fill material varied from one to 15 feet thick depending on the location along the creek bank. The fluidized creek bottom sediments were brown to yellowish brown, black, mottled, wet, fluidized silt which contained organic matter and exhibited a chemical odor. The fluidized creek sediments ranged from one-half to 11 feet thick.

The investigation concluded that 19,500 cubic yards of contaminated sediments would need to be remediated.

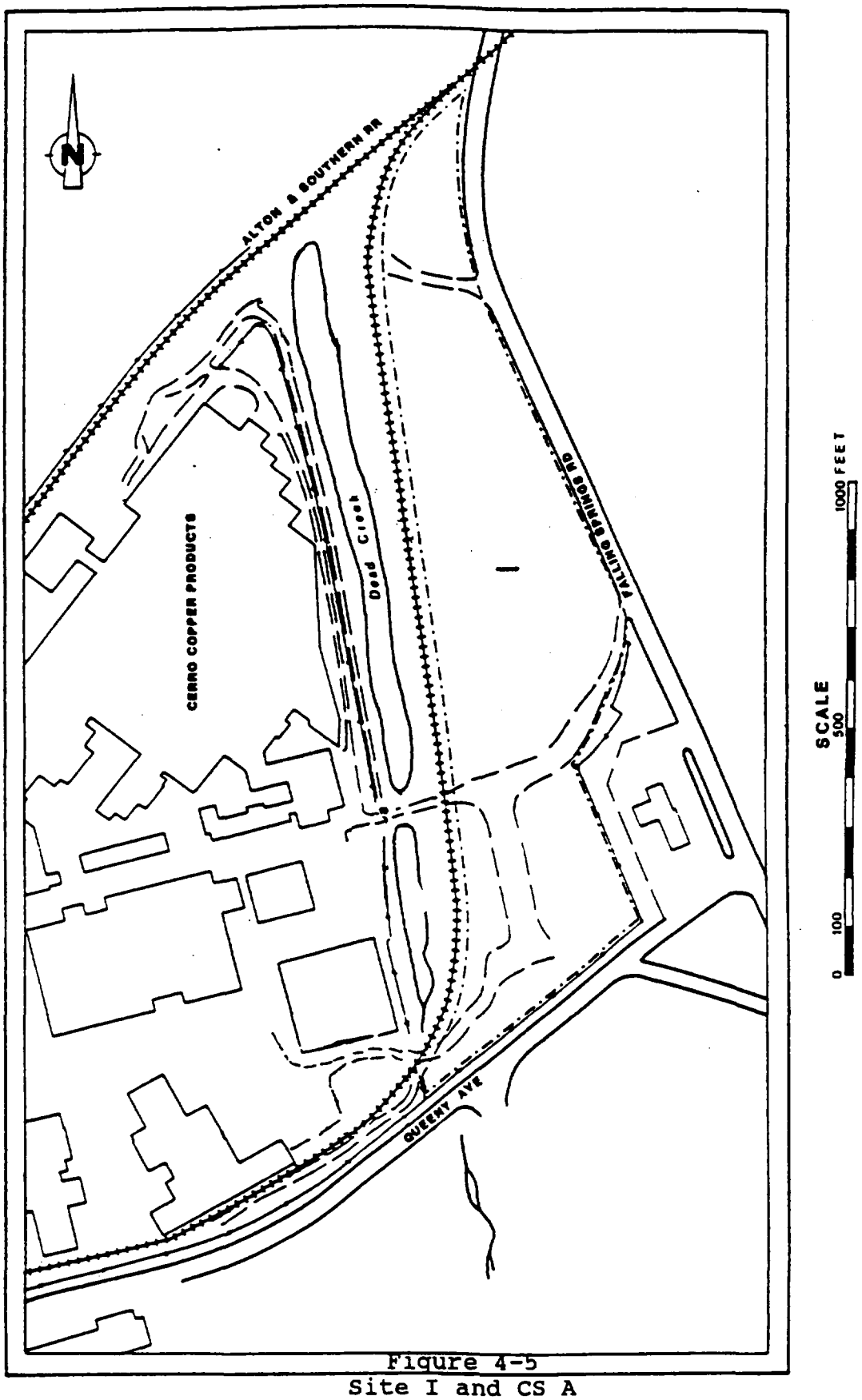


Figure 4-5
Site I and CS A

4.8 Dead Creek Segment B

Segment B includes the 1800 feet of creek lying between Queeny Avenue and Judith Lane in Sauget. Three other Area #1 Sites are located adjacent to CS B. Sites G, L and M have all been identified as possible sources of pollution in CS B. USEPA installed the fence around CS B and Site M in 1982. The banks of the creek are heavily vegetated and debris is scattered throughout the northern portion of CS B. CS-B belongs to the Village of Sauget.

G&M figured a volume of 3,330 cubic yards of sediment (the amount in the upper 2 feet) that have been impacted by contamination in CS B. This is the approximate amount that would need to be remediated.

4.9 Dead Creek Segments C through F

Creek segments C-F includes the entire length of Dead Creek south of Judith Lane. This portion of the creek flows south-southwest through the Village of Cahokia prior to discharging into the Prairie Dupont Creek. Dead Creek is wider in CS C-F than in the up-gradient segments. In the southern portion of CS E near Parks College, the creek temporarily passes through a corrugated pipe. Downstream of this point, the creek passes through a series of culverts prior to draining into a large wetland area west of Illinois Route 3.

The CERCLA SSI samples revealed that the down-gradient segments C-F, including the large wetland, have been impacted by the contaminants draining from the Area #1 Sites. The

lower segments of Dead Creek consist of approximately 3.4 acres (15,000 feet times 10 feet/43,560 square feet/mile).

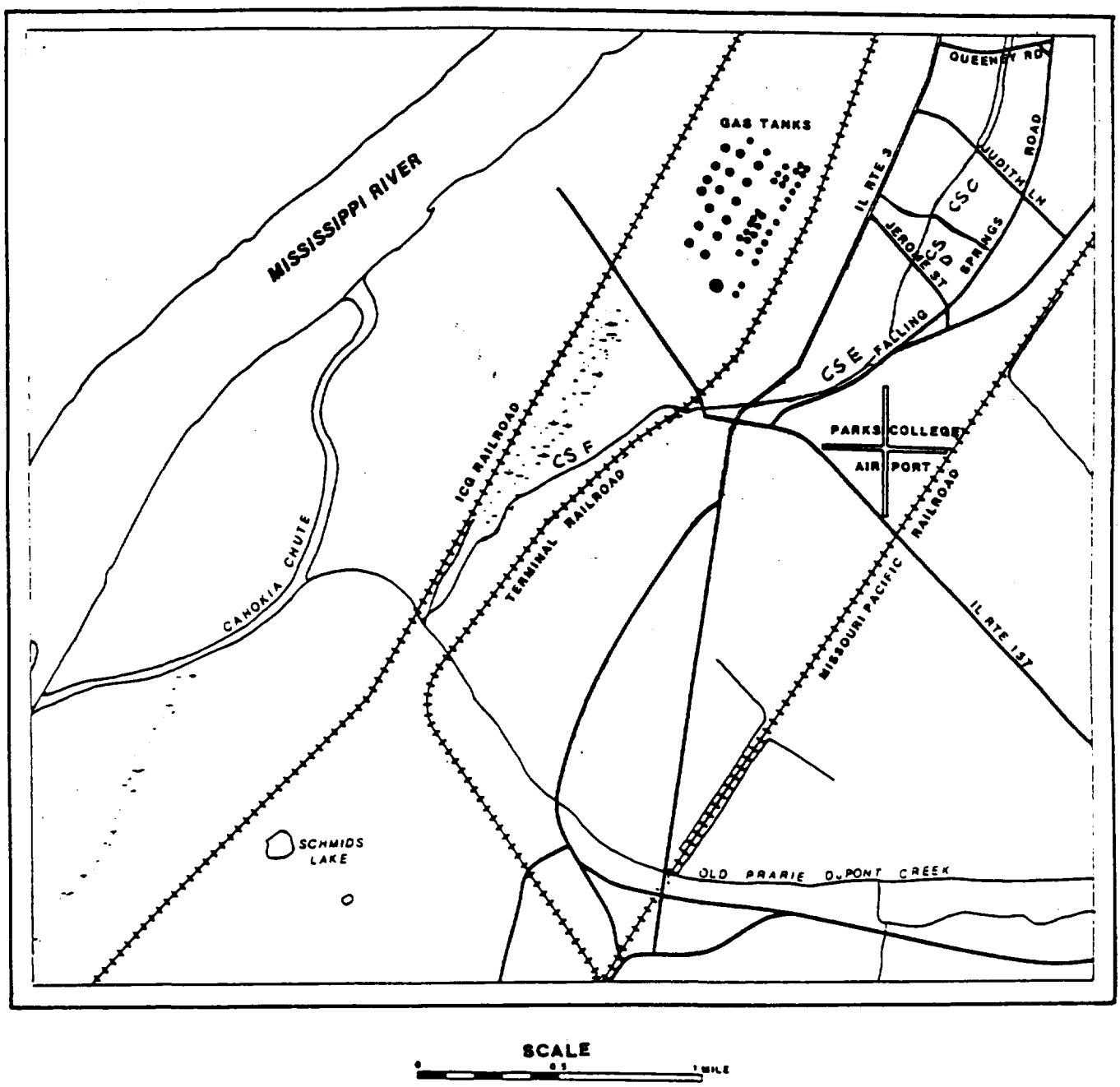


Figure 4-6

Dead Creek Segments C through F

5. MIGRATION PATHWAYS

5.1 INTRODUCTION

This section includes information that may be useful in determining the Sauget Sites Area #1 impact on the three migration pathways (groundwater, surface water, air) and the soil exposure pathway identified in CERCLA's hazard ranking system (HRS). Based on the analytical results noted in the previous section, and findings from previous investigations, each pathway has been subject to a release from the Sites. The hazardous waste releases are threatening to effect the human health and environment in the Sauget and Cahokia area.

5.2 GROUNDWATER PATHWAY

Sauget Sites Area #1 are located in a region known as the American Bottoms. ISGS well logs indicate that the upper stratigraphy in this region consists of 70-120 feet of unconsolidated alluvium and glacial outwash overlying Mississippian aged limestone and sandstone formations (Ste. Genevieve and St. Louis Limestones). The valley fill deposits are composed of two formations, the uppermost being the Cahokia Alluvium followed by the Mackinaw Member of the Henry Formation.

The Cahokia Alluvium is composed predominantly of silt, clay and fine sand deposits. In the Sauget area, these deposits vary in thickness, with a range of 15 to 30 feet. This formation was laid down via flood events, eolian activity, bank slumping, erosion and/or slugs of material deposited directly by tributary steams. The Mississippi

River has frequently re-worked this formation in such a way that coarser material is intermingled with finer-grained deposits.

Underlying the Cahokia Alluvium is the Mackinaw Member of the Henry Formation. This formation is composed of sand and gravel from glacial outwash. In the Sauget area, this material rests directly on the bedrock surface and varies between 70 and 100 feet in thickness.

Local hydrogeologic information has been obtained through groundwater monitoring in the Sauget area. In the vicinity of the Area #1 Sites, shallow sand and gravel deposits close to the ground surface, yield significant quantities of water for nearby homes and business. Horizontal groundwater movement in the shallow deposits generally follow the land surface topography, with lateral movement toward local discharge zones (wells and small streams) and some movement into the deeper unconsolidated aquifers. Groundwater is encountered between six and 15 feet below the ground surface in area. These figures can be used for the depth to the aquifer of concern (AOC). Groundwater in the deeper unconsolidated valley fill deposits generally follows the bedrock surface. Accordingly, groundwater generally flows downstream through the sand and gravel aquifers in much the same direction as the original stream flow, but at a much slower rate.

Most area residents are supplied with drinking water by the Illinois-American Water Company (IAWC) which operates an

intake on the Mississippi River upstream of Sauget. IAWC sells the water to the various water departments and districts within the Sauget/Cahokia area. However, some area residents do obtain drinking water from shallow wells. Illinois Department of Public Health (IDPH) files and Illinois State Water Survey (ISWS) well logs indicate at least 50 area residents have wells which are used for drinking or irrigation. These wells are located in Cahokia (23), East St. Louis (5), East Carondelet (16) and Dupo (6). These numbers do not include the wells at the homes on Judith Lane in Cahokia or an unknown number of residents in the Schmids Lake area (approximately 2.3 miles southwest) that are not covered by any public water distribution. The alluvial well at PT's Show Club, which draws water from the AOC, is monitored by the IDPH as a non-community well (serving over 25 people). A 1983 report by the Southwestern Illinois Metropolitan and Regional Planning Commission (SIMRPC) listed 69 residences in Centreville Township (includes Sauget, Cahokia, Alorton and Centreville) which use private water systems. The same report lists 57 residences in East St. Louis and 365 residences in Sugarloaf Township (includes Dupo, North Dupo and East Carondelet). SIMRPC based their report on 1980 census data.

5.3 SURFACE WATER PATHWAY

Although the Area #1 Sites are located in the American Bottoms floodplain, flooding is controlled by the U.S. Army Corps of Engineers 500-year levee. All of the Area #1 sites

drain into Dead Creek which flows into Old Prairie Dupont Creek. The probable point of entry (PPE) is defined as the site(s) drainage point as it enters a perennial surface water body or it's associated wetlands. In the case of the Area #1 Sites, Dead Creek has been designated a wetland throughout it's 18,000 feet course. Therefore, Dead Creek is the PPE for the Area #1 Sites. The Dead Creek wetland drains into the perennial flowing, Old Prairie Dupont Creek which empties into the Cahokia Chute of the Mississippi River. The distance from the Dead Creek - Old Prairie Dupont Creek confluence to the main channel of the Mississppi River (river mile 174.2) is 1.5 miles. A 15-mile surface water map is included in Appendix B of this report.

The average discharge of the Mississippi River, as measured over a 128 year period at St. Louis, Missouri, is 179,800 cubic feet per second. The 15-mile surface water target distance limit extends to Mississippi River mile 160.7. Within this stretch, the river is used for recreational purposes (fishing, water skiing etc.) and freight trafficking. There is an upstream surface water intake at river mile 181, which supplies most of the Illinois side area residents, was mentioned in the groundwater section. The City of St. Louis is also supplied by an upstream surface water intake, about 16 miles north at river mile 190. At downstream river mile 149 (about 24 river miles south of area), the Village of Crystal City, Missouri (population 4000) utilizes a Ranney well, adjacent to the

Mississippi River, for drinking water. A well of this kind is assumed to draw in surface water due to its construction and location to the river. On the Illinois side, the nearest downstream surface water intake is located approximately 61 miles south of the area, at river mile 110. The intake is used by the town of Chester and surrounding communities in Randolf County. According to the Illinois Department of Conservation (IDOC), the Resource Inventory for the Mississippi River at river miles 178-162 shows commercial fishing areas, sport fishing areas, important wildlife habitat and bald eagle use at selected areas in this reach.

5.4 AIR PATHWAY

Documented releases to the ambient air were observed in E&E study of the Sites. It has been estimated that about 1587 people live within a mile of the Area #1 Sites and about 174,163 people live within 4-miles, based on house counts and census data. The table on the following page shows the target distance populations. According to the Illinois Department of Commerce and Community Affairs (1988), approximately 3,200 people are employed within the Sauget Area.

5.5 SOIL EXPOSURE PATHWAY

The soil and sediment samples collected during the SSI indicate a potential for direct contact with hazardous wastes. Access remains unrestricted to the contaminants found in Dead Creek Segments C through F. Four residential properties and Parks College have ownership of Dead Creek in

CS D and CS E. There are also several residential encroachments into Dead Creek. Appendix A in the Expanded Site Inspection Report contains specific property boundary information.

Table 5-1

Target Population Calculation

Distance Ring	(Homes) x 2.76	Percent of Village	Area (mi2) x Pop. Density	Pop./ Pop. Total
0-1/4	(575) **1,587**	--	--	**1,587/** 1,587
>1/4-1/2	(324) **895**	Cahokia 1.5% (18,904) **284**	--	**1,178/** 2,765
>1/2-1	--	Cahokia 43% (18,904) **8,139**	.328 E.St.L. (4,119) **1,353**	**9,491/** 12,256
>1-2	(385) **1,063**	Cahokia 42.3% (18,904) **8,000**	1.9 E.St.L. (4,119) **7,826** 1.0 St.L. (7,379) **7,379**	**24,268/** 36,524
>2-3	--	Dupo 5% (3,039) **1,520** Centreville 75% (9,747) **7,310** Alorton 100% (2,237) **2,237**	2.3 E.St.L. (4,119) **9,474** 5.9 St.L. (7,379) **43,537**	**64,078/** 100,602
>3-4	--	Dupo 5% (3,039) **1,520** Centreville 25% (9,747) **2,436**	4.0 E.St.L. (4,119) **16,476** 7.2 St.L. (7,379) **53,129**	**73,561/** 174,163

Total Target Population = 174,163

6. BIBLIOGRAPHY

The Avendt Group, Inc. March 1990, Site Investigation / Feasibility Study for Creek Segment A prepared for Cerro Copper Products, Sauget, Illinois.

Bureau of the Census. County and City Data Book. 1990 U.S. Census data.

Illinois Department of Commerce and Community Affairs, 1988, Illinois Manufacturers Directory, published by Manufactures' News, Inc.

Illinois Department of Energy and Natural Resources, State Water Survey, water well records of wells in St. Clair County, Townships 1 and 2 North, Ranges 10 and 9 West.

Illinois Environmental Protection Agency, Division of Land Pollution Control files for St. Clair County L1630000000.

Ecology and Environment Incorporated (E&E). May, 1988, Expanded Site Investigation Dead Creek Project Sites at Cahokia/Sauget, Illinois prepared for Illinois Environmental Protection Agency, Division of Land Pollution Control.

Geraghty and Miller, Incorporated. March, 1992, Site Investigation for Dead Creek Sector B and for Sites L and M, in Sauget and Cahokia, Illinois, prepared for Monsanto Company, St. Louis, Missouri.

Lutz, Richard W. Illinois Department of Conservation, Division of Planning, Impact Analysis Section Supervisor. June 24, 1991. Personal correspondence.

Moore, Bonnie. Southwestern Illinois Metropolitan Planning Commission, (618) 344-4250, Telephone interview.

U.S. Department of the Interior. Water Resources Data - Illinois, Water Year 1989 Volume 1. Illinois except Illinois River Basin. U.S. Geological Survey, 1990

U.S. Department of the Interior. Fish and Wildlife Service, National Wetlands Inventory Maps: Monks Mound, IL. Quadrangle (225A), Granite City, IL-MO Quadrangle (225B), Cahokia, IL-MO Quadrangle (225C), French Village, IL. Quadrangle (225D).

U.S. Geological Survey, 1974, Monks Mound, IL. Quadrangle (225A), 1982, Granite City, IL-MO Quadrangle (225B), 1974, Cahokia, IL-MO. Quadrangle (225C), 1982, French Village, IL Quadrangle (225D), 1974, Webster Groves, MO-IL (224D), 1982, Clayton, MO (224A) 7.5 Minute Series

USEPA, December, 1990 Draft, Bioaccumulation of Selected Pollutants in Fish. A National Study EPA 506/6-90/001b Washington D.C.

Yuraqecz, M.P., and B.J.Puma, 1983, Identification of Chlorinated Nitrobenzene Residues in Mississippi River Fish, Journal of the Association of Official Analytical Chemists 66(6):1345-1352.

APPENDIX A

GROUNDWATER 4-MILE RADIUS MAP

APPENDIX B

SURFACE WATER ROUTE MAP

APPENDIX C

USEPA FORM 2070-13

APPENDIX D

TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane
Bromomethane
Vinyl Chloride
Chloroethane
Methylene Chloride
Acetone
Carbon Disulfide
1,1-Dichloroethene
1,1-Dichloroethane
1,2-Dichloroethene (total)
Chloroform
1,2-Dichloroethane
2-Butanone
1,1,1-Trichloroethane
Carbon Tetrachloride
Vinyl Acetate
Bromodichloromethane
1,2-Dichloropropane
cis-1,3-Dichloropropene
Trichloroethene
Dibromochloromethane
1,1,2-Trichloroethane
Benzene
trans-1,3-Dichloropropene
Bromoform
4-Methyl-2-pentanone
2-Hexanone
Tetrachloroethene
1,1,2,2-Tetrachloroethane
Toluene
Chlorobenzene
Ethylbenzene
Styrene
Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane
bis(2-Chloroethyl)Ether
Benzyl Alcohol
bis(2-Chloroisopropyl)Ether
N-Nitroso-Di-n-Propylamine
Nitrobenzene
Hexachlorobutadiene
2-Methylnaphthalene
1,2,4-Trichlorobenzene
Isophorone
Naphthalene
4-Chloroaniline
bis(2-chloroethoxy)Methane
Hexachlorocyclopentadiene
2-Chloronaphthalene
2-Nitroaniline
Acenaphthylene
3-Nitroaniline
Acenaphthene
Dibenzofuran
Dimethyl Phthalate
2,6-Dinitrotoluene
Fluorene
4-Nitroaniline
4-Chlorophenyl-phenylether
2,4-Dinitrotoluene
Diethylphthalate
N-Nitrosodiphenylamine
Hexachlorobenzene
Phenanthrene
4-Bromophenyl-phenylether
Anthracene
Di-n-Butylphthalate
Fluoranthene
Pyrene
Butylbenzylphthalate
bis(2-Ethylhexyl)Phthalate
Chrysene
Benzo(a)Anthracene
3,3'-Dichlorobenzidene
Di-n-Octyl Phthalate
Benzo(b)Fluoranthene
Benzo(k)Fluoranthene
Benzo(a)Pyrene
Indeno(1,2,3-cd)Pyrene
Dibenz(a,h)Anthracene
Benzo(g,h,i)Perylene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid
Phenol
2-Chlorophenol
2-Nitrophenol
2-Methylphenol
2,4-Dimethylphenol
4-Methylphenol
2,4-Dichlorophenol
2,4,6-Trichlorophenol
2,4,5-Trichlorophenol
4-Chloro-3-methylphenol
2,4-Dinitrophenol
2-Methyl-4,6-dinitrophenol
Pentachlorophenol
4-Nitrophenol

Pesticide/PCB Target Compounds

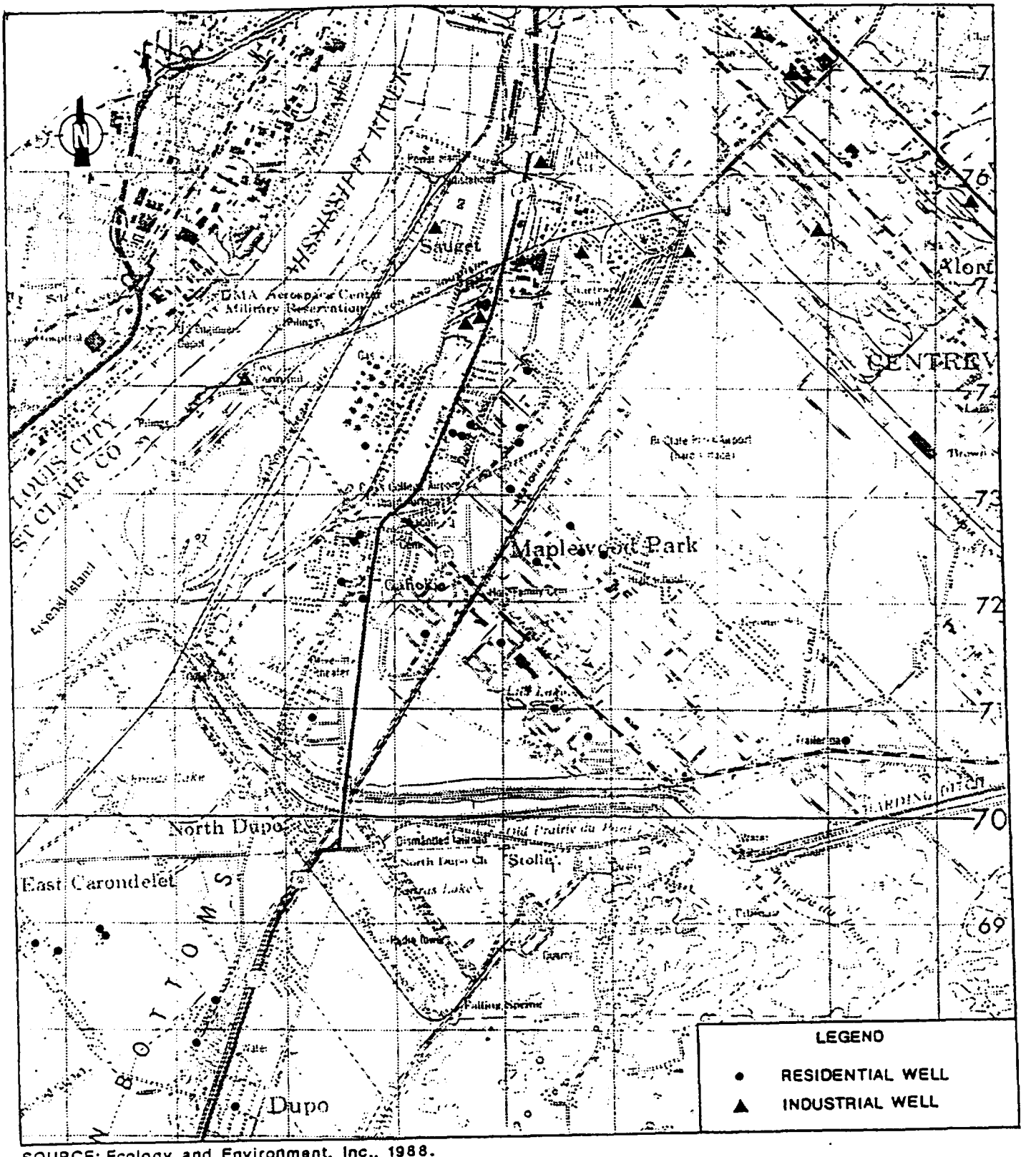
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC (Lindane)
Heptachlor
Aldrin
Heptachlor epoxide
Endosulfan I
4,4'-DDE
Dieldrin
Endrin
4,4'-DDD
Endosulfan II
4,4'-DDT
Endrin Ketone
Endosulfan Sulfate
Methoxychlor
alpha-Chlorodane
gamma-Chlorodane
Toxaphene
Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260

Inorganic Target Compounds

Aluminum
Antimony
Arsenic
Barium
Beryllium
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Nickel
Potassium
Selenium
Silver
Sodium
Thallium
Vanadium
Zinc
Cyanide
Sulfide
Sulfate

APPENDIX E

WELL LOGS



SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 1 2 3 4 MILES

RESIDENTIAL AND INDUSTRIAL WELL LOCATIONS IN THE DCP AREA

The following is an explanation of the ISWS Private Well Database Printout.

101 | | 02N | 10W | 23 | JIM BURNS | | HACKER | | 021090 | X | 2935 | 16 | L | 00 | |

Columns	Field Length	Name	Description
1-3	3	FIPS	County Code Number

FIPS means Federal Information Processing System and is a Federal number to designate a county.

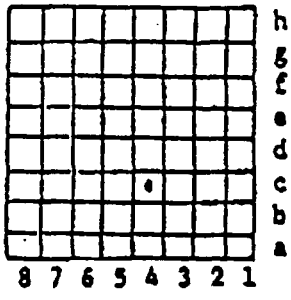
4-8	5	SGS County number	

SGS County number is the Geological Survey ID# that is assigned as an internal identification number.

9-18	10	Location	Township columns 9-11 Range columns 12-14 Section columns 15-16 Plot columns 12-18

The location system uses the township, range, and section. The location consists of five parts: county, township, range, section, and coordinate within the section. Sections are divided into rows of 1/8-mile squares. Each 1/8-mile square contains 10 acres and corresponds to a quarter of a quarter of a quarter section. A normal section of 1 square mile contains 8 rows of 1/8-mile squares; an odd-sized section contains more or fewer rows. Rows are numbered from east to west and lettered from south to north as shown in the diagram.

St. Clair County
T.2N., R.10W.
Sec. 23



The location of the well shown above is STC 2N10W-23.4c. Where there is more than one well in a 10-acre square they are identified by arabic numbers after the lower-case letter in the well number.

Columns	Field Length	Name	Description
93-94	2	Well type -	A two letter code indicating the type of well
			Blank - Assumed drilled
			BD Bored and dug
			DU Dug (being phased out)
			DR Driven
			SP Sand point
			SG Spring
95-96	2	Aquifer type -	A two letter code indicating aquifer type
			Blank - Undeterminable
			BR Bedrock
			UN Unconsolidated

The data in the Private Well Inventory Database is a listing of those non-municipal wells which are known to the Illinois State Water Survey (ISWS). This information has been entered verbatim from well logs submitted by the driller, from chemical analysis reports, from well sealing forms or well inventory forms from the 1930-34 well survey and other special projects. The accuracy of this data is controlled by those who submitted the form. Information in the private well database has not been field verified.

Columns	Field Length	Name	Description
19-48	30	Owner	
49-68	20	Driller	
69-75	7	Date	Month columns 69-70 Day columns 71-72 Century columns 73 Year columns 74-75
76	1	Permit code letter indicates agency which issued permit #. M Mines and Minerals (after 1988 only observation wells and irrigation wells) P Public Health - all non-community supplies E EPA - Community supplies N No fee X Undetermined	
77-82	6	Permit number	
83-86	4	Depth (in feet)	
87-90	4	Record type - Indicates paper source that documents the well exists, since records were collected before well log submittal was required. L Log A Affidavit C Chemical analysis I Inventory X Indicates comment in owner field something unusual	
91-92	2	Well use - A two letter code indicating the usage of the well CM Commercial CO Conservation DO Domestic IN Industrial IR Irrigation MO Monitoring MU Municipal NC Non-Community OB Observation PK Park SC School ST State	

163	01N09W047FLALUMIER E		0000943	29	C	DU
163	01N09W06 JC RR A YARD	LAYNE WESTERN	0400947	105	L	CM
163	01N09W081ABARBEAU E	DOHRMAN	0901977M065458207		L	DO
163	01N09W081CDLIVER M	DS DRILL	0911974M032393140		L	DO
163	01N09W087EPIAT E		0000943	27	C	DU
163	02N09W075DCIRCLE PKG CO	WATSON	0200942	120	L	CM
163	02N09W075ECIRCLE PKG CO	LUHR	0000962	112	IC	CM
163	02N09W075ECIRCLE PKG CO	LUHR	0719966	115	IC	CM
163	02N09W076DCIRCLE PKG CO		0000941	111	LC	CM
163	02N09W076EE SIDE PKG		0000906	100	L	CM
163	02N09W076EHUNTER PKG CO	BUTLER	0421958	116	L	CM
163	02N09W076EHUNTER PKG CO	LAYNE WESTERN	0000968	106	I	CM
163	02N09W077EHUNTER PKG CO	FRANK	0322957	100	L	CM
163	02N09W077EHUNTER PKG CO	LUHR	0306956	106	LC	CM
163	02N09W077FHUNTER PKG CO		0000943	110	C	CM
163	02N09W087APFIZER	LAYNE WESTERN	0814972M016352115		L	CM
163	02N09W087APFIZER	RUESTER	1100983M109867117		L	CM
163	02N09W092HPENN RR LAKE ROAD HOUSE	WATSON	0900941	115	L	CM
163	02N09W097ANIEDERER DAIRY		0000936	96	C	CM
163	02N09W097ANIEDERER DAIRY	WATSON	0300946	98	LC	CM
163	02N09W103DWATERLOO ICECREAM		0000942	122	C	CM
163	02N09W103DWATERLOO ICECREAM		0000942	124	C	CM
163	02N09W106GWALWORTH CO		0000943	122	C	CM
163	02N09W108HWALWORTH CO		0000943	124	C	CM
163265910	2N09W131EFREEDOM CONCRETE	ST CH DRILL	1208987M137981100		L	CM
163	02N09W137ASCHRANZ J		0908954	98	L	DO
163	02N09W16		0000930	110	C	DG
163	02N09W16 JONES PK		0000954		C	PK
163	02N09W167AE ST LOUIS CASTING		0200943	116	LC	CM
163	02N09W168EWATERLOO ICECREAM	WATSON	0909939	59	L	CM
163	02N09W172BAM ASPHALT ROOFING	WATSON	0200947	105	L	CM
163	02N09W173BAM ASPHALT ROOFING		0000939	113	LC	CM
163	02N09W173FE ST LOUIS PK DIST		0000930	110	C	PK
163	02N09W177FWILLIAMS PAINT CO	THORPE	0600929	117	L	CM
163	02N09W177GWILLAIMS PAINT CO(TEST)	LAYNE WESTERN	0000947	116	LX	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0000947	114	L	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0000947	115	L	CM
163	02N09W177GWILLIAMS PAINT CO	THORPE	0600929	113	L	CM
163	02N09W177GWILLIAMS PAINT CO(TEST)	LAYNE WESTERN	0000947	117	LX	CM
163	02N09W177GWILLIAMS PAINT CP		0000928	100	C	CM
163	02N09W177HPFIZER	THORPE	0000947	114	IC	CM
163	02N09W178BDRUG STORE		0000949	84	C	CM
163	02N09W187CROXY THEATRE		0000944	91	C	CM
163	02N09W187GSANMER ICE	WATSON	0000943	116	CL	CM
163259	03 2N09W19 PRESTRESSED SLABS	ST CH DRILL	1029986M126802100		L	CM
163	02N09W193HHOME ICECREAM CO		0000933	115	LC	CM
163	02N09W198EOBEAR WESTER CO		0000943	104	C	CM
163	02N09W198FCERTAIN TEED PROD		0903952	106	L	CM
163	02N09W198FCERTAIN TEED PROD		1026950	110	L	CM
163	02N09W198FOBEAR WESTER CO		0000943	104	C	CM
163	02N09W198GLEMP BREWING CO		0000946	720	C	CM
163	02N09W208ABALTON AND SOUTH RR		0000944	100	C	IN
163	02N09W231AOPEN AIR THEATRE	WATSON	1000941	83	L	CM
~~163~~	~~02N09W231CPOPP R~~	~~ST CH DRILL~~	~~0727977M063762114~~		~~L~~	~~DG~~
~~163~~	~~02N09W232FPOPP R~~	~~KOHNEN~~	~~0623964M111312561~~		~~L~~	~~IR~~
163	02N09W243HAM ZINC CO			97	C	CM
163	02N09W29 ALUMINUM ORE COO		1000940	1215	L	IN
163	02N09W295GIND TRACK SUP INC	KOHNEN	0119981M09811132		L	DU
163	02N09W298FCHEN TECK PROD		0000972	98	IC	CM

163	02N10W103B	NAT STOCK YD		0000967	108	C	CM
163	02N10W11	MISSOIRI ILL MATERIAL		0400943	115	L	CM
1630137002	N10W22	MONSANTO CHEM	RANNEY	0800952	97	L	IN
1630137202	N10W22	MONSANTO CHEM	RANNEY	0800952	97	L	IN
1630137102	N10W22	MONSANTO CHEM	RANNEY	0903952	90	L	OG
163	02N10W23	AP GROCERY	WATSON	0600946	80	L	CM
163	02N10W241E	CERTAIN TEED PROD		0000943	106	C	CM
163	02N10W241H	CERTAIN TEED PROD	WATSON	1200942	123	L	CM
163	02N10W25	MOBIL OIL		0000987	105	A	IN
163	02N10W25	MOBIL OIL		0000987	109	A	IN
163	02N10W25	MOBIL OIL	EATSON	0000943	16	A	IN
163	02N10W25	MOBIL OIL	WATSON	0000940	115	A	IN
163	02N10W25	MOBIL OIL	WATSON	0000946	92	A	IN
163	02N10W25	MOBIL OIL	WATSON	0000951	106	A	IN
163	02N10W25	MOBIL OIL(PLANT CLOSED)	WATSON	0000939	115	AX	IN
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0404984M11165967		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0404984M11165968		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0405984M11166068		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166168		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166268		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166368		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166468		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166568		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166668		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166768		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166868		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11166968		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167068		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167168		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167268		LX	DU
163	02N10W25	MONSANTO CHEM(TEMPORARY)	BARBATO	0414984M11167368		LX	DU
1632569702	N10W25	TWI INC	ST CH DRILL	0702985M11870189		L	CM
163	02N10W25	TWI INC	ST CH DRILL	1217982M10581984		L	CM
163	02N10W255D	MOBIL OIL	LUHR	0214961	107	LC	IN
163	02N10W255E	MOBIL OIL	LUHR	0000959	114	C	IN
163	02N10W256A	MIDWEST RUBBER CO	THORPE	0500951	110	L	CM
163	02N10W256E	SOCCNY OIL	WATSON	0000943	95	L	IN
163	02N10W257B	MONSANTO CHEM		0000920	100	L	IN
163	02N10W257E	MOBIL OIL	LUHR	0411957	113	L	IN
163	02N10W257E	MOBIL OIL	THORPE	0000951	106	LA	IN
163	02N10W257E	SOCONY MOBIL OIL	WATSON	0000955	112	L	IN
163	02N10W26	AM AG CHEM CO	WATSON	000000	102	L	IN
163	02N10W26	LEWIN MATHES	WATSON	0200947	104	L	CM
163	02N10W26	MIDWEST RUBBER CO	THORPE	1200946	111	L	CM
163	02N10W26	MIDWEST RUBBER	WATSON	0321960	113	L	CM
163	02N10W26	MIDWEST RUBBER CO	MORGAN	0000950	106	L	CM
163	02N10W26	MIDWEST RUBBER CO	MORGAN	0000950	114	L	CM
163	02N10W26	MIDWEST RUBBER CO	WATSON	1007959	110	L	CM
163	02N10W261E	MONSANTO CHEM		0000947	105	C	IN
163	02N10W261E	STERLING STEEL CASTING		0000942	95	LC	CM
163	02N10W261G	MONSANTO CHEM(TEST)	WATSON	0000950	108	LX	IN
163	02N10W261H	CWS PLANT US ARMY		0000941	100	LC	CM
163	02N10W261H	CWS PLANT US ARMY		0700941	105	L	CM
163	02N10W262D	STERLING STEEL CATSING		0000973		C	CM
163	02N10W262E	MONSANTO CHEM		0000947	105	C	IN
163	02N10W262E	MONSANTO CHEM		0300941	107	LC	IN
163	02N10W262E	MONSANTO CHEM	WATSON	0000941	107	L	IN
163	02N10W262H	AM ZINC CO(ABANDONED)	WATSON	0000943	107	LX	CM

163	02N10W263DLEWIN MATHES		0000942	110	C	CM
163	02N10W263GMONSANTO CHEM		0100942	110	LC	IN
163	02N10W263GMONSANTO CHEM		1000939	105	LC	IN
163	02N10W263HAM ZINC CO	WATSON	0100942	105	LC	CM
163	02N10W264DLEWIN MATHES	WATSON	0600948	101	L	CM
163	02N10W264EMONSANTO CHEM		0000947	109	C	IN
163	02N10W264FMONSANTO CHEM		1000939	105	LC	IN
163	02N10W264SMONSANTO CHEM		0200943	104	LC	IN
163	02N10W265DCERRO COPPER BRASS	LUHR	0000970	111	CI	CM
163	02N10W265DDARLING CO		0000939	70	LC	CM
163	02N10W266BMIDWEST RUBBER CO	THORPE	0300951	112	LC	CM
163	02N10W268ACLAYTON CHEM CO	ST CH DRILL	0225983M10620890		L	CM
163	02N10W268ACLAYTON CHEM CO	ST CH DRILL	0412976M04548078		L	CM
163	02N10W268AMIDWEST RUBBER	LUHR	0906968M00484915		LC	CM
163	9137602N10W27 MONSANTO CHEM	RANNEY	0000952	100	L	IN
163	02N10W27 MONSANTO CHEM	RANNEY	0801952	99	L	IN
163	02N10W27 MONSANTO CHEM	RANNEY	0826952	97	L	IN
163	02N10W273FMONSANTO CHEM	LUHR	0600959	101	L	IN
163	02N10W273HMONSANTO CHEM	RANNEY	0000952	102	I	IN
163	02N10W306GAP GROCERY	WATSON	0600946	120	L	CM
163	02N10W331FCARGILL ELEVATOR	WATSON	0600952	105	L	CM
163	02N10W333FMOBIL OIL	FUESTER	0217984M11117196		L	IN
163	02N10W34 PHILLIPS PETRO	WATSON	0000000	23	L	CM
163	02N10W34 US GOVT		0000000		L	RM
163	02N10W342FPHILLIPS PETRO	LAYNE WESTERN	0500978	100	IC	CM
163	02N10W342FPHILLIPS PETRO	RUESTER	0428979M07258910	2	L	CM
163	02N10W342GPHILLIPS PETRO		0000943	73	C	CM
163	02N10W345FCORPS OF ENGINEERS		1015947	102	L	CM
163	02N10W355AUP OIL AND READY CONCRETE	ST CH DRILL	1107977M06863010	3	L	CM

Platteville Nov 1F37 322

LOG OF WATER WELL

american Zinc Co - Monsanto

erty owner United Engineers + Const. Inc. E. St. Louis Well No. 6

led by H. L. Watson (Vandermill) Year Nov. 1940

Formations passed through	Thickness	Depth of Bottom
Cinder + Mud	15	15
Fine sand	60	75
good water bearing formation	30	105
Quicksand to soapstone	2	107

Abandoned

[Continue on back if necessary]

ished in ______ at ______ to ______ ft.

ed with ______ inch COUNTY No. 1926 from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

e hole below casing ______ inch. Static level from surf. 34 ft.

ted capacity 1500 gal. per min. Temperature ______ °F.

ter lowered to ______ ft. ______ in. in ______ hrs. ______ min.

gth of test ______ hrs. ______ min. Screen Cook

t 120 Diam. 16 Length 30' Bottom set at ______ ft.

[Show location in Section Plat]

wnship name ______ Elev. ______ Sec. 23

scription of location SE, SE Sec 23 Twp. 2N

T 2N, R 10 W [illegible] Rge. 10 W

Location by Groundwater Div.

ned ______ County St. Clair

CLAIR 23-2N-10W

by for Illinois State Geological Survey NO ENVELOPE Index:

251

LOG OF WATER WELL

Property owner United Engineers Well No. 7

american Zinc Co. Monsanto, Ill.

Drilled by Watson (Moretti + Claridge) Year Jan. 1942

Formations passed through	Thickness	Depth of Bottom
Dirt	5	
Fine sand	45	50
Coarse sand	25	75
gravel	30	105

COUNTY No. 1929

[Continue on back if necessary]

Finished in ______ at ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. 33' 6" ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot 40+50 Diam. 16" Length 30' Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. 404 TOPO Sec. 23

Description of location SE, SE Sec 23, T 2N, R 10W Twp. 2N

800' W 90°10' 7000' N 38°35' [illegible] Rge. 10W

Location by Groundwater Div.

Signed ______ County St. Clair

St. CLAIR 23-2N-10W

Copy for Illinois State Geological Survey NO ENVELOPE Index:

Phto IF-36

321

LOG OF WATER WELL

rty owner American Zinc Co. Monsanto, Ill. Well No. 8

d by H. L. Watson Year Feb. 1946

Formations passed through	Thickness	Depth of Bottom
umbo	20	20'
Quick sand	30	50'
sand	16	66'
Med. Sand	10	76
No log	26	102
TD=102		

[Continue on back if necessary]

shed in ____ at ____ to ____ ft.

COUNTY No. 1927

d with ____ inch ____ from 0 to ____ ft.

and ____ inch ____ from ____ to ____ ft.

hole below casing ____ inch. Static level from surf. ____ ft.

ted capacity ____ gal. per min. Temperature ____ °F.

ter lowered to ____ ft. ____ in. in ____ hrs. ____ min.

gth of test ____ hrs. ____ min. Screen Cook

t ____ Diam. 16 Length 30' Bottom set at ____ ft.

[Show location in Section Plat]

wnship name ____ Elev. ____ Sec. 23

scription of location SE SE Sec. 23 Twp. 2N

T2N, R10W Rge. 10W

Location by Groundwater Div.

ned ____ County St. Clair

CLAIR 23-2N-10W

No ENVELOPE

py for Illinois State Geological Survey Index:

LOG OF WATER WELL

Property owner American Zinc Co. Monsanto, Ill. Well No. 9

Drilled by H. L. Watson (G. W. Fink) Year Nov. 1950

Formations passed through	Thickness	Depth of Bottom
Mud	35	35
Sand	45	80
Medium sand	20	100
sand + coarse gravel	4	104
TD=104'		

[Continue on back if necessary]

Finished in ____ at ____ to ____ ft.

Cased with ____ inch ____ from 0 to ____ ft.

COUNTY No. 1928

and ____ inch ____ from ____ to ____ ft.

Size hole below casing ____ inch. Static level from surf. ____ ft.

Tested capacity ____ gal. per min. Temperature ____ °F.

Water lowered to ____ ft. ____ in. in ____ hrs. ____ min.

Length of test ____ hrs. ____ min. Screen ____

Slot ____ Diam. 40" Length 60' Bottom set at ____ ft.

[Show location in Section Plat]

Township name ____ Elev. ____ Sec. 23

Description of location SW, SE Sec. 23 Twp. 2N

T2N, R10W Rge. 10W

Location by Groundwater Div.

Signed ____ County St. Clair

CLAIR No ENVELOPE 23-[illegible]-10W

Copy for Illinois State Geological Survey Index:

John C. Moore Corpora hester, N. Y. Binder and holes in leaves, each Patented 1908. 19

(575—5M—7-23)

TOWNSHIP MAP No. 4W

NY Union Electric Light and Power 10W

300 ft. S. of North property Line

RITY 50 ft. E. of Eastern Inner 2 Proj.

TION Harbor Line HOLE No. 6 N 23

CTOR DATE DRILLED

COUNTY NO. 163 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH In.
Water	16		16	
Sand, fine	12		28	
Sand, coarse	10		38	
Sand, very coarse 1/2 in. gravel	10		48	
Sand, coarse	27		75	
Sand, coarse 5% 1/2 in. gravel	4		79	
Sand, coarse 25% 1/2 in. gravel	4		89	
Sand, coarse 40% 3 in. gravel	3		92	
Sand with gravel	12	8	104	8

Minus 76.06 rock

y St. Clair

ILL RECORD Index No.

Projected 23-2N-10W

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1908. 19

(575—5M—7-23)

TOWN Cahokia TOWNSHIP MAP No. 4W

COMPANY Union Electric Light & Power 10W

FARM 100 ft. S. of N. property Line on

AUTHORITY Eastern Inner Harbor Line. 2 Proj.

ELEVATION HOLE No. 7 N 23

COLLECTOR DATE DRILLED

No.	COUNTY NO. 163 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH In.
	Water	35		35	
	Sand, fine	5		40	
	Sand, coarse	10		50	
	5% 2 in. gravel				
	Sand, coarse	15		65	
	15% 1/8 in. gravel				
	Sand, coarse	12		77	
	20% 1 1/2 and 10% 1/8 in. gravel				

163

St. Clair

County

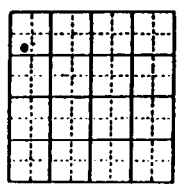
DRILL RECORD Index No.

Projected 23-2N-10W

ILLINOIS GEOLOGICAL SURVEY, URBANA

IT # NF 08825	Thickness	Top	Bottom
test hole was first drilled to a pth of 111', then filled in with nd and later re-drilled with a gger bit. Both records follow.			
HOLE			
		0	11
y sand brown		12	21
sand brown		22	30
sand gray		31	41
um sand gray		42	51
se sand gray with pea gravel		52	56
se sand gray with pea gravel		57	61
se sand gray with pea gravel		62	86
coarse sand gray with 3/8" gravel		87	91
coarse sand gray with ½" gravel		92	96
coarse sand gray with ½" gravel		97	101
coarse sand gray with ½" gravel		102	104
coarse sand gray with ½" gravel		105	111
			TD
RECORD			
		0	18
coarse gray			20
coarse gray with gravel			25
fine			30
coarse gray with gravel			35
coarse gray with gravel			40
coarse gray with 1" gravel			45
coarse gray with 1" gravel		55	60
coarse gray with 3/4" gravel		65	70

Luhr Brothers, Inc.
Cerro Copper & Brass Co. NO. 1
RILLED July 10, 1970 COUNTY NO. 3208
ITY Company
ON
N 1000' N line, 400' W line of NW
ST. CL R



26-2N-10W

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
Sand very coarse gray			75
Sand very coarse gray with cobbles to 5"		80	110½ TD

Well Casing:
- Material - Steel coated with bituminous
- Diameter: 20" outside diameter
- Length - 78.73'
- Wall Thickness - .075

Final Casing Elevation Above Grade: 1'

Size of Drilled Hole:
- 40" to 20'
- 38" to bottom

Well Screen:
- Material - Stainless steel #304
- Diameter - 20" nominal
- Length - 31.82
- Slot Size - .100
- Type Make - UOP Johnson

Depth of Screen set at 110.55'

Gravel Filter:
- Used 23 tons Muscatine, 1/16" - 3/16" No. 3
- Wall Thickness - 8½"
- Feet Above Screen - 26'

Static Level: 23.86'

S.S. # 57106.

Y Luhr Bros., Inc. Cerro Copper & Brass Co 1
ST. CLAIR
26-2N-10W

(2840—50M—12-61)

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
	1'6"		1'6"
	34		35'6"
gravel	6		41'6"
el & sand	24		65'6"
el & boulders	13		84'6"
el	5'6"		90
se gravel & boulders	18		108

ed 1400 gallons per minute.

r stands 12'6" from surface of ground.

r stands 26'6" when pumping 1400 llons per minute.

of well 24".

ubic yards of gravel.

rial used in well:
)' of 38" Pit,
)6'8" of 24" which includes 58' of 24" Shutter Screen & 48'4" of 24" Pit.

l of seal used Steel Plug.

'N and 50'E of crossing of Alton & uthern R.R. & Falling Springs Rd.

NY Layne & Bowler Company
Monsanto Chemical Works NO. 1
DRILLED May 8, 1920 COUNTY NO. 1741
RITY Layne & Bowler Co.
TION 410' ±
ION *
TY ST. C R

Projected 26-2N-10W

374

LOG OF WATER WELL

Property owner Monsanto Chem. Co. Well No. Test well #1

Drilled by Layne-Western (F. Sally) Year Feb. 1948

Formations passed through	Thickness	Depth of Bottom
Soil Fill	1	1
Cinder fill	4	5
Cinders, blue, green clay	5	10
Cinders + fine black sand	5	15
Fine black sand + clay	5	20
" " " , streak red gray sand	5	25
Fine black mucky sand, sand & gravel shells	20	45
red Coarse gray sand	10	55
Coarse gray sand	5	60
Fine, packed gray-brown sand boulders from 67'6" to	14	74
Sand + gravel, packed w/ much fine sand	3	77
Packed sand, gravel + boulders	3	80
Packed sand, gravel + Boulders	13	93
Sand + Boulders	9	102
(Formation in general is very tight)		TD

[Continue on back if necessary]

Finished in ... at ... to ... ft.

Cased with ... inch ... from 0 to ... ft.

and ... inch ... from ... to ... ft.

Size hole below casing ... inch. Static level from surf. ... ft.

Tested capacity ... gal. per min. Temperature ... °F.

Water lowered to ... ft. ... in. in ... hrs. ... min.

Length of test ... hrs. ... min. Screen ...

Slot ... Diam. ... Length ... Bottom set at ... ft.

[Show location in Section Plat]

Township name ... Elev. 410 TOPO

Description of location SW NE Sec. 26, T 2 N, R 10 W

Sec. 26 Twp. 2 N Rge. 10 W

Signed ... County St. Clair

[By] for Illinois State Geological Survey Index: 26-21 .0W

COUNTY No. 1941

NO ENVELOPE

(22844—50M—9-55)

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
edish sandy and blue silt		0	15
rey sand little silt		15	20
rey sand		20	25
lue and grey sand		25	30
ine grey sand		30	35
ine grey sand and blue silt		35	40
ine blue and grey sand		40	45
o recovery wash samole. Fine blue and grey sand		40	50
o recovery wash sample. fine blue and grey sand.		50	55
ine blue sand, No recovery		55	60
lue sand and wood no recovery		60	65
rey and blue sand. No recovery		65	70
ine blue sand. No recovery		70	75
ine blue sand. No recovery		75	80
edium blue sand. No recovery		80	85
ixed grey and blue sand no recovery		85	90
ixed grey and blue sand. No recovery		90	95
ixed blue and grey sand. Could not drive sample Barrell. Felt like gravel		95	100
lue and grey sand. No spoon sample taken.		100	105
lue and redish sand. no spoon sample taken. Drove casing to 110'4". Set well screen at 108'11". Could not get any deeper as sand was running under casing.		105	110
otal Depth			110'4" TD

.ocation plat filed.
:.S.#29900

NY Wabash Drilling Co.
Monsanto Chemical Co. NO. SR-2
RILLED November 1956 COUNTY NO. 1987
RITY Wabash Drilling Co.
ION 412.5' refusal (MSL)
ON 680'W of 90° 10'W longitude, 4310'N of 35° north latitude.
Y ST. CL

Projected 26- 2N-10W

SC Jack Buffe (or Kelley) Photo 1F-88

Plotted on Photo

LOG OF WATER WELL

Property owner Monsanto Chem. Co. (Plant "B") Well No. 12

Drilled by H. C. Waters Year

Formations passed through	Thickness	Depth of Bottom
No log	70	
Fine Sand	5	75
Coarse sand & gravel	5	80
Coarse sand & gravel	5	85
" " " "	5	90
" " " "	5	95
" " " "	5	100
Sand & gravel	5	105
" " "	5	110
Fast Boulder	2	112

[Continue on back if necessary]

COUNTY No. 1944

Finished in at to ft.

Cased with inch from 0 to ft.

and inch from to ft.

Size hole below casing inch. Static level from surf. 39'6" ft.

Tested capacity 1250 gal. per min. Temperature °F.

Water lowered to ft. in. in hrs. min.

Length of test hrs. min. Screen Johnson

Slot 60-80-100 Diam. 16 Length 27½' Bottom set at ft.

[Show location in Section Plat]

Township name Elev. Sec. 26

Description of location SE, NE Sec. 26, T 2 N, R 10 W Twp. 2N

Rge. 10W

Located by Ground survey

Signed County St. Clair.

T. CLAIR

Copy for Illinois State Geological Survey Index: 26-2N 0W

183

LOG OF WATER WELL

#17

…erty owner Monsanto Chem. Co. Well No. 8

…ed by H. L. Watson (Walz) Year July 1941

Formations passed through	Thickness	Depth of Bottom
…ill	10	10
…und	8	18
…ellow sand	10	28
…ray sand (getting water)	35	63
#30 sand	15	78
#40 gravel	5	83
#50 "	5	88
#60 "	17	105 TD

[Continue on back if necessary]

…ished in ______ to ______ ft.

COUNTY No. 1947

…ed with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

… hole below casing ______ inch. Static level from surf. 30 ft.

…ted capacity ______ gal. per min. Temperature ______ °F.

…ter lowered to ______ ft. ______ in. in ______ hrs. ______ min.

…gth of test ______ hrs. ______ min. Screen Johnson

… 40 Diam. 16 Length 30' Bottom set at ______ ft.

[Show location in Section Plat]

…nship name ______ Elev. ______ Sec. 26

…cription of location SW, NE Sec. 26, T 2 N, R 10 W Twp. 2N

Rge. 10W

…cation by Groundwater Div. …

…ned ______ County St. Clair

…CLAIR

…y for Illinois Stat… …ological Survey No ENVELOPE Index: 26-2N-10W

Plotted on photo

… 379

LOG OF WATER WELL

Property owner Monsanto Chem. Co. Well No. 19
(80' S + E of main entrance gate) R.W. # 2

Drilled by Layne-Western (F. Sallee) Year Aug. 1948

Formations passed through	Thickness	Depth of Bottom
Cinder + Clay fill	2	2
Brown sand	14	16
Brown + blue clay	2	18
Brown silty sand	27	45
Med. gray sand	5	50
Med. fine clammy gray sand	5	55
Med. coarse sand + gravel, much rotten wood	6	61
Coarse sand + gravel	5	66
Black med sand, some gravel	7	73
Coarse sand + gravel	2	75
Coarse brown sand	5	80
Med. brownish gray sand + boulders	4	84
Coarse gray sand	6	90
" " " " + gravel	18	108

[Continue on back if necessary]

Finished in ______ to ______ ft.

COUNTY No. 1948

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. ______ ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen Shutte

Slot ______ Diam. ______ Length 25 Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 26

Description of location NE, NE Sec. 26, T 2 N, R 10 W Twp. 2N

Rge. 10W

Signed ______ County St. Clair

…E. CLAIR

…y for Illinois State Geological Survey No ENVELOPE Index: 26-2N-10W

1589 435

Plotted on Cahokia Quad.

LOG OF WATER WELL

Property owner Midwest Rubber Reclaiming Co. Well No. 2

Drilled by Thorpe (Morgan) Year ?

Formations passed through	Thickness	Depth of Bottom
Sandy soil	27	27
River silt	8	35
Coarse sand + pea gravel	8	43
Silt, fine sand + silt	21	64
Very coarse sand	6	70
Coarse sand, wood, veg., etc. gravel	11	81
Very coarse sand	5	86
Very coarse sand + gravel	28	114

[Continue on back if necessary]

Finished in ______ COUNTY No. 1938 ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. 25' 6" ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot ______ Diam. ______ Length ______ Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 26

Description of location ______ Twp. 2N

Rge. 10W

Location by Ground Water Div.

Signed ______ County St Clair

ST. CLAIR

Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

Ver. Cy # 435

LOG OF WATER WELL

See Mr. Luther

Property owner Midwest Rubber Reclaiming Co Well No. 3

Drilled by Thorpe (Morgan) Year 1951

Formations passed through	Thickness	Depth of Bottom
Hard fill	3	3
Fine dry sand + silt	34	37
Med. fine sand very dirty	14	51
Med. coarse sand, dirty	11	62
Building sand some fine gravel	9	71
Clean coarse sand	23	94
Coarse sand + boulders	8	102
Med. coarse sand	10	112

[Continue on back if necessary]

Finished in ______ COUNTY No. 1939 ______ to ______ ft.

Cased with ______ inch ______ from 0 to ______ ft.

and ______ inch ______ from ______ to ______ ft.

Size hole below casing ______ inch. Static level from surf. 35' Apr. 18 ft.

Tested capacity ______ gal. per min. Temperature ______ °F.

Water lowered to ______ ft. ______ in. in ______ hrs. ______ min.

Length of test ______ hrs. ______ min. Screen ______

Slot ______ Diam. ______ Length ______ Bottom set at ______ ft.

[Show location in Section Plat]

Township name ______ Elev. ______ Sec. 26

Description of location ______ Twp. 2N

Rge. 10W

Location by Ground Water Div.

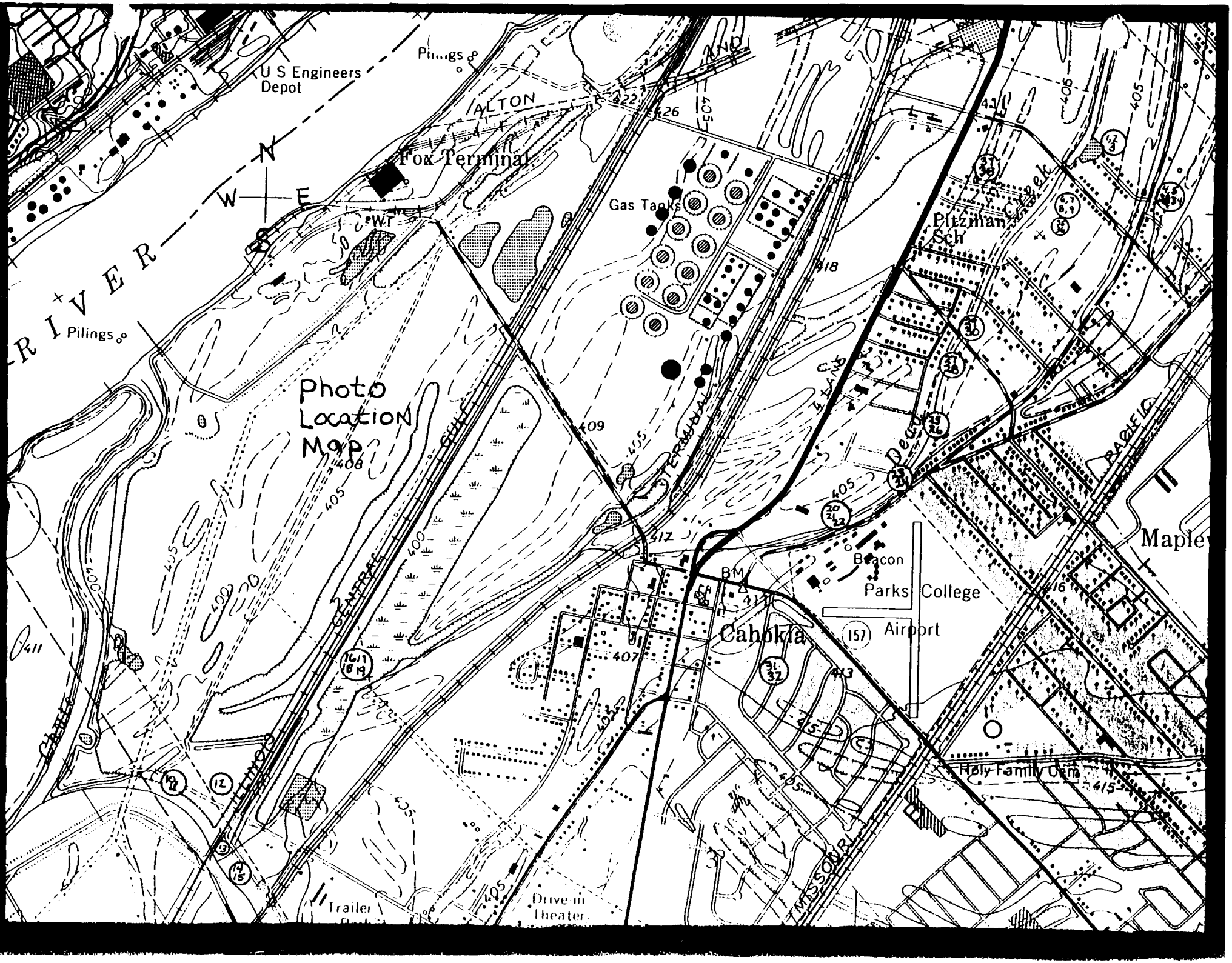
Signed ______ County St Clair

ST. CLAIR

Copy for Illinois State Geological Survey NO ENVELOPE Index: 26-2N-10W

APPENDIX F

IEPA SITE PHOTOGRAPHS


U S Engineers Depot
Pilings
ALTON
Fox Terminal
Gas Tanks
Pilings
Photo Location Map
Plitzman Sch
Beacon
Parks College
Airport
Cahokia
Holy Family Cem
Drive in Theater
Trailer
CENTRAL
ILLINOIS
MISSOURI
PACIFIC
TERMINAL
N
S
E
W

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: See | 02 SITE NUMBER: CERCLIS

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Sauget Sites Area #1	Multiple locations				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Sauget/Cahokia	IL	62201/62206	St. Clair	163	21

09 COORDINATES: LATITUDE Multiple LONGITUDE ---

10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ■ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
3 / 27-28 / 91 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	1932 (BEGINNING YEAR) / 1981's (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ___ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
■ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Tim Murphy	EPS	IEPA	(217)782-6760
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Paul Takacs	EPS	"	( ) "
Judy Triller	EPS	"	( ) "
Greg DuNN	EPS	"	( ) "
Greg Spencer	EPS	"	( ) "
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mike King	Mayor of Cahokia	103 Main St. Cahokia, IL 62206	(618)337-3492
Paul McNamara	Village Planner	"	( ) "
Ema Locket	Administrator	E. Side Health District 5540 Bunkum Rd., Washington Park, IL	(618)874-4620
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	8:30A-6:30P (27th) 8:00A-1:40P (28th)	windy sunny mild Sunny mild

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
		( )

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Tim Murphy	IEPA	BL/DRM/RPM	(217)782-6760	9 / 23 / 92 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
See	CERCLIS

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A. SOLID
- ☒ B. POWDER, FINES
- ☒ C. SLUDGE
- ☒ E. SLURRY
- ☒ F. LIQUID
- ☐ G. GAS
- ☐ D. OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS _____
NO. OF DRUMS UNKNOWN

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
- ☒ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☒ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☒ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☒ K. REACTIVE
- ☒ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	✓		
OLW	OILY WASTE	✓		
SOL	SOLVENTS	✓		
PSD	PESTICIDES	✓	UNKNOWN	
OCC	OTHER ORGANIC CHEMICALS	✓		
IOC	INORGANIC CHEMICALS	✓		
ACD	ACIDS	✓		
BAS	BASES	✓		
MES	HEAVY METALS	✓		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	See report				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

IEPA Files for the Dead Creek Sites in St. Clair County
Ecology + Environment's Expand Dead Creek Sites Study May, 1988 (E+E)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980614176

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Sauget Monsanto Illinois Landfill (Sites I/H)
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: Falling Springs Rd. at Queeny Ave.
03 CITY: Sauget
04 STATE: IL | 05 ZIP CODE: 62201 | 06 COUNTY: St. Clair | 07 COUNTY CODE: 163 | 08 CONG DIST: 21
09 COORDINATES: LATITUDE 38 35 22.0 | LONGITUDE 090 10 11.5
10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 03 27+ 91 (MONTH DAY YEAR)
02 SITE STATUS: ☐ ACTIVE ■ INACTIVE
03 YEARS OF OPERATION: 1931 (BEGINNING YEAR) | 1957 (ENDING YEAR) ___ UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply):
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 981953623

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Dead Creek Area G
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: Queeny Ave
03 CITY: Sauget
04 STATE: IL | 05 ZIP CODE: 62201 | 06 COUNTY: St. Clair | 07 COUNTY CODE: 163 | 08 CONG DIST: 21
09 COORDINATES: LATITUDE 38° 35' 17.0" | LONGITUDE 090° 10' 25.0"
10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 03 27+ 91 (MONTH DAY YEAR)
02 SITE STATUS: ☐ ACTIVE ■ INACTIVE
03 YEARS OF OPERATION: 1952 (BEGINNING YEAR) | late '70's (ENDING YEAR) ___ UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply):
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 984809269

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Waggoner Trucking Company (Site L)
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: 1300 Queeny Ave
03 CITY: Sauget
04 STATE: IL | 05 ZIP CODE: 62201 | 06 COUNTY: St. Clair | 07 COUNTY CODE: 163 | 08 CONG DIST: 21
09 COORDINATES: LATITUDE 38 35 10.0 | LONGITUDE 090 10 20.0
10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 3 / 28 / 91 (27+) (MONTH DAY YEAR)
02 SITE STATUS: ☐ ACTIVE ■ INACTIVE
03 YEARS OF OPERATION: 1971 (BEGINNING YEAR) | 1981 (ENDING YEAR) ___ UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm) ■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 984809251

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): H.H. Hall Excavation Pit (Site M)
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: West End of Walnut Street
03 CITY: Cahokia
04 STATE: IL | 05 ZIP CODE: 62201 | 06 COUNTY: St. Clair | 07 COUNTY CODE: 163 | 08 CONG DIST: 21
09 COORDINATES: LATITUDE 38 35 05.0 | LONGITUDE 090 10 50.0
10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 3 / 28 / 91 (27+) (MONTH DAY YEAR)
02 SITE STATUS: ☐ ACTIVE ■ INACTIVE
03 YEARS OF OPERATION: 1950 (BEGINNING YEAR) | UNK (ENDING YEAR) ___ UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm) ■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 982073603

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): H.H. Hall Construction Company (Site N)
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: 3500 Block Falling Springs Rd.
03 CITY: Cahokia
04 STATE: IL | 05 ZIP CODE: 62206 | 06 COUNTY: St. Clair | 07 COUNTY CODE: 163 | 08 CONG DIST: 21
09 COORDINATES: LATITUDE 38 34 56.0 | LONGITUDE 090 10 25.0
10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 3 / 28 / 91 (27) (MONTH DAY YEAR)
02 SITE STATUS: ☐ ACTIVE ■ INACTIVE
03 YEARS OF OPERATION: 1950's (BEGINNING YEAR) | UNK (ENDING YEAR) ___ UNKNOWN
04 AGENCY PERFORMING INSPECTION (Check all that apply): ☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm) ■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 984809277

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Dead Creek Segment A	North of Queeny Ave.				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Sauget	IL	62201	St. Clair	163	21

09 COORDINATES: LATITUDE 38 35 35.0 | LONGITUDE 090 10 15.0

10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION	
3 / 27 / 28 / 91 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	early 1900's (BEGINNING YEAR)	UNK (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 980792006

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Dead Creek (Segments B)	E. Walnut St., N. of Judith LN.				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Sauget	IL	62201	St. Clair	163	21

09 COORDINATES: LATITUDE 38 32 09.0 | LONGITUDE 090 10 22.5

10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ■ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION	
3 / 27 / 28 / 91 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	early 1900's (BEGINNING YEAR)	UNK (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 984809285

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Dead Creek Segments C-F	South of Judith LN.				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Cahokia	IL	62206	St. Clair	163	21

09 COORDINATES: LATITUDE 38 33 50.0 | LONGITUDE 090 11 25.0

10 TYPE OF OWNERSHIP (Check one): ■ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ■ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION	
03 / 27+ / 28 / 91 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	early 1900's (BEGINNING YEAR)	UNK (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
■ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
See	CERCLIS

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >50
02 ■ OBSERVED (DATE: 3/87) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Groundwater under many of the Sites is contaminated with a variety of organic and inorganic compounds/analytes. See report table 2-5.

01 ■ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: UNK
02 ■ OBSERVED (DATE: 3/27/91) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Wetlands are contaminated with PCB's See table 3-3 in report (XIII)

01 ■ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 1587 w/in ¼ mile
02 ■ OBSERVED (DATE: 7/16,17/87 10/80) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Site G and CS B have a documented release of PNA's and PCB's

01 ■ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: UNK
02 ☐ OBSERVED (DATE: 7/79 5/80) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Complaints recieved by IEPA concerning fires and smoldering in Dead Creek

01 ■ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: UNK
02 ☐ OBSERVED (DATE: 3/28/91) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Residential and School property are w/in the contaminated creek segments

01 ■ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: UNK (Acres)
02 ■ OBSERVED (DATE: 1980, 1986, 1991) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Residential yards sampled during the SSI revealed observable release critieria for heavy metals

01 ■ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: >50
02 ☐ OBSERVED (DATE: 3/26/87) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Residential wells sampled by E+E showed estimated values of volatiles and also metals

01 ■ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

3000 Workers at CERRO Copper are exposed to Site I and have been exposed to CS A (remediated 11/90)

01 ■ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ■ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

See above

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: See | 02 SITE NUMBER: CERCLIS

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ■ J. DAMAGE TO FLORA — 02 ■ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
CSB has areas that are devoid of vegetation in Northern Section

01 ■ K. DAMAGE TO FAUNA — 02 ■ OBSERVED (DATE: 8/80) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species) to IEPA
It has been reported that domestic animals have been effected by the contaminated creek segments (Dog dies due to burns, cats have growths/ lesions and then die).

01 ■ L. CONTAMINATION OF FOOD CHAIN — 02 ■ OBSERVED (DATE: 10/81, 3/83) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Fish in Mississippi River are contaminated w/ Dioxins, PCB's, chlorinated Nitro-benzenes. May or May Not be Attributable to Area #1

01 ■ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
No liners on landfills (site G & H/I) or lagoons (L)

01 ■ N. DAMAGE TO OFFSITE PROPERTY — 02 ■ OBSERVED (DATE: 3/28/92) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Yards show attributable contamination of heavy metals See report, 3-3 table

01 ■ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Overflows from Dead Creek Could enter Sewer System

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ■ OBSERVED (DATE: [redacted] 7/71) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
(Site L) direct dumping into Dead Creek by Waggoner Trucking
Random dumping at Site G, through 1970's

Dumping at Site H in 1981 (J. Tolbird)

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Many of the residential people complained of illnesses and cancer while sampling

III. TOTAL POPULATION POTENTIALLY AFFECTED: >1587

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)
IEPA files for Sauget/St. Clair Co. Dead Creek Sites
E+E report May, 1988

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
See	CERCLIS

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
■ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
■ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
■ C. DRUMS, ABOVE GROUND	≈30	55gal@G
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
■ F. LANDFILL	310,000	yd³
☐ G. LANDFARM		
■ H. OPEN DUMP	≈1400	yd³@G
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY.
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER _____ (Specify)

05 OTHER

- ■ A. BUILDINGS ON SITE

06 AREA OF SITE

≈ 39 (Acres)

07 COMMENTS

Area of site G. 4.5ac
H/I 24ac
L 1ac
M 2.2ac
N 2ac
CS 5ac

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ■ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

No liners on landfills or lagoons

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ■ YES ☐ NO

02 COMMENTS IN CS C-F

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

IEPA files for Sauget/St. Clair Co., Dead Creek Sites
E+E report May, 1988

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
See	CERCLIS

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ■	B. ☐		A. ☐	B. ☐	C. ☐	upstream A. 7 (mi)
NON-COMMUNITY	C. ☐	D. ■		D. ■	E. ☐	F. ☐	B. .009 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ■ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	03 DISTANCE TO NEAREST DRINKING WATER WELL
>50	.009 (mi)

04 GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
≈6 (ft)	W	6 (ft)	UNK (gpd)	■ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Private wells range from 15 - 50 feet

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS High Porosity Alluvial Aquifer	■ YES ☐ NO	COMMENTS Mississippi River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

■ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Dead Creek Wetland	■	0 (mi)
Old Prairie Dupont Creek	☐	0 (mi)
Mississippi River	☐	1.5 (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A. 12,256 NO. OF PERSONS	B. 36,524 NO. OF PERSONS	C. 100,602 NO. OF PERSONS	0.0 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
≈30,000	.009 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Urban and suburban areas with industrial/commercial zones nearby

See Appendix A + B (Maps .N report)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
See	CERCLIS

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ■ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ■ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
70-120 (ft)	UNK > (ft)	UNK	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
39.5 (in)	2.5 (in)	<2 %	W	<2 %

09 FLOOD POTENTIAL
protected by 500 SITE IS IN _____ YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum) Site in wetland

ESTUARINE: A. _____ (mi) OTHER: B. 0 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

9 (mi) downstream at RM 165.5

ENDANGERED SPECIES: Bald Eagle

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 0 (mi)	B. 0 (mi)	C. _____ (mi)	D. 0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

See Appendix A USGS Topo Map

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IDept of Conservation (IDOC) Sensitive Areas Form for Sauget/Cahokia
USGS Topographic Maps
E+E report May, 1988

EPA FORM 2070-13(7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
See	CERCLIS

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	5	IEPA organics lab in Springfield, IL IEPA inorganics lab in Champaign, IL	May 91
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	13	"	"
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
temp, ph, Specific Conductivity	
	distance from Parks College Building to X110

IV. PHOTOGRAPHS AND MAPS

01 TYPE ■ GROUND ■ AERIAL

02 IN CUSTODY OF IEPA (Name of organization or individual)

03 MAPS ● YES ○ NO

04 LOCATION OF MAPS Appendix A + B

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA files for Sauget/Cahokia Dead Creek Sites.
E+E report May, 1988

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE: See | 02 SITE NUMBER: CERCLIS

II. [redacted]

Site G

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Wiese Planning + Engineering, Inc.		1200 Queeny Ave.		Sauget	IL	62201

Site G

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Myrtle + Emily Hankins		3110 Mississippi Ave.		Sauget	IL	62201

Site H

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
J. Tolbird (Roger's Cartage)		Falling Springs Rd.		Sauget	IL	62201

CS-A

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Cerro Copper Products		Route 3		Sauget	IL	62201

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
The Marmon Group						

Site I

III. [redacted] (List most recent first)

Site I/H Site or

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Leo Sauget		(deceased)				
J. Tolbird (Roger's Cartage		See above				

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

Site L

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Waggoner Trucking +		Ruan Trucking		(defunct)		

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA files for Sauget/Cahokia Dead Creek Sites
E+E report May, 1988

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE: See | 02 SITE NUMBER: CERCLIS

II. [redacted]

PARENT COMPANY (If applicable)	
01 NAME: Keeley L. Paving + Const. Co.	02 D+B NUMBER:
08 NAME:	09 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 2901 Falling Springs Rd.	04 SIC CODE:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):	11 SIC CODE:
05 CITY: Cahokia	06 STATE: IL	07 ZIP CODE: 62206
12 CITY:	13 STATE:	14 ZIP CODE:

Site L

01 NAME: Thomas Owen	02 D+B NUMBER:
08 NAME:	09 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 1929 Sandy Ridge Rd.	04 SIC CODE:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):	11 SIC CODE:
05 CITY: Cahokia	06 STATE: IL	07 ZIP CODE: 62206
12 CITY:	13 STATE:	14 ZIP CODE:

Site M

01 NAME: H. H. Hall Const. Co.	02 D+B NUMBER:
08 NAME:	09 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): Falling Springs Rd.	04 SIC CODE:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):	11 SIC CODE:
05 CITY: Cahokia	06 STATE: IL	07 ZIP CODE: 62206
12 CITY:	13 STATE:	14 ZIP CODE:

Site N

01 NAME: Private + Municipal * *Village of Cahokia	02 D+B NUMBER:
08 NAME:	09 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): 103 Main St.	04 SIC CODE:
10 STREET ADDRESS (P.O. Box, RFD #, etc.):	11 SIC CODE:
05 CITY: Cahokia	06 STATE: IL	07 ZIP CODE: 62206
12 CITY:	13 STATE:	14 ZIP CODE:

S -F

III. [redacted] (List most recent first)

01 NAME: H. H. Hall Const. Co.	02 D+B NUMBER:
01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.): Falling Springs Rd	04 SIC CODE:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY: Cahokia	06 STATE: IL	07 ZIP CODE: 62206
05 CITY:	06 STATE:	07 ZIP CODE:

ite M

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME:	02 D+B NUMBER:
01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:	07 ZIP CODE:
05 CITY:	06 STATE:	07 ZIP CODE:
01 NAME:	02 D+B NUMBER:
01 NAME:	02 D+B NUMBER:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
03 STREET ADDRESS (P.O. Box, RFD #, etc.):	04 SIC CODE:
05 CITY:	06 STATE:	07 ZIP CODE:
05 CITY:	06 STATE:	07 ZIP CODE:

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See previous page

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
See	CERCLIS

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
See table 2-2 in			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
report			
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Waggoner Trucking		Sauget and Company	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
(defunct)		(defunct)	
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Ruan Trucking		Roger's Cartage	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
(defunct)		Falling Springs Rd.	
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
		Sauget	IL

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

IEPA files for Sauget/Cahokia Dead Creek Sites
E+E report May, 1988

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
See	CERCLIS

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ■ E. CONTAMINATED SOIL REMOVED — 02 DATE 11/90 — 03 AGENCY _____
04 DESCRIPTION
See Part II

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
See	CERCLIS

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ■ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY USEPA
04 DESCRIPTION
Fences have been erected around CS B, Site G, Site M

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA files for Sauget/Cahokia Dead Creek Sites
E+E report May, 1988

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
See	CERCLIS

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ■ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Consent Decree was administered for Cerro Copper to remove contaminated soils and sediment at Dead Creek Seg A.
Cerro Copper spent 13.1 million dollars to remove 27,500 Tons of waste to TSCA + RCRA permitted facilities

~~Satisfies~~
Satisfies 2 of 3 requirements of an effective removal
1) wastes removed off site (OK)
2) wastes taken to approved RCRA/TSCA regulated facilities. (OK)
→ 3) Work plan was submitted (may '86) prior to Consent decree + clean-up (timelyness)

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Investigation/Feasibility Study for Creek Segment A June 1990
The Arvendt Group, Inc.

EPA FORM 2070-13 (7-81)

DATE: March 27, 1991

TIME: 10:00 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 1

LOCATION: Walter Allen residence, 101 Walnut St., Cahokia, IL, (G205)

PICTURE TAKEN TOWARD: E

COMMENTS: The 17' well is used for large garden and greenhouse watering.

PHOTO # 2 toward the NE

DATE: March 27, 1991

TIME: 10:00 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 3

LOCATION: Walter Allen residence, 101 Walnut St., Cahokia, IL, (G205).

PICTURE TAKEN TOWARD: NW

COMMENTS: The Allen well is next to Site M and at the end of Dead Creek Segment B.

DATE: March 27, 1991

TIME: 10:40 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 4

LOCATION: John Ballett residence, 3300 Falling Springs Rd. Cahokia, IL, (G203)

PICTURE TAKEN TOWARD: N

COMMENTS: The 20' (approx.) well is used for garden watering.

DATE: March 27, 1991

TIME: 10:40 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 5

LOCATION: John Ballett residence, 3300 Falling Springs Rd. Cahokia, IL, (G203)

PICTURE TAKEN TOWARD: NW

COMMENTS: Next door neighbor also has well with past drinking use (N. Johnson).

DATE: March 27, 1991

TIME: 11:25 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 6

LOCATION: William Settle residence, 102 Judith Ln., Cahokia, IL, (G201).

PICTURE TAKEN TOWARD: E

COMMENTS: The 26' well is E of the Wright residence next to Dead Creek Segment C.

DATE: March 27, 1991

TIME: 11:25 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 7

LOCATION: William Settle residence, 102 Judith Ln., Cahokia, IL, (G201).

PICTURE TAKEN TOWARD: NW

COMMENTS: He uses his well ocassionally for drinking.

DATE: March 27, 1991

TIME: 11:55 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 8

LOCATION: William Schmidt residence, 104 Judith Ln., Cahokia, IL, (G202).

PICTURE TAKEN TOWARD: N

COMMENTS: The 49' well is E of the Settle well (G201) about 350' E of Dead Creek Segment C.

DATE: March 27, 1991

TIME: 11:55 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 9

LOCATION: William Schmidt residence, 104 Judith Ln., Cahokia, IL, (G202).

PICTURE TAKEN TOWARD: NW

COMMENTS: He used his well in the past for drinking,. he now waters grapes/grass and garden with the well.

DATE: March 27, 1991

TIME: 3:45 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 10

LOCATION: Old Prairie Dupont Creek in Cahokia, IL, (X114).

PICTURE TAKEN TOWARD: SE

COMMENTS: The location is approximately 2000' down-stream of the Dead Creek inlet.

DATE: March 27, 1991

TIME: 3:45 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 11

LOCATION: Old Prairie Dupont Creek in Cahokia, IL, (X114).

PICTURE TAKEN TOWARD: E-NE

COMMENTS: Old Prairie Dupont Creek flows into the Cahokia Chute of the Mississippi River.

DATE: March 27, 1991

TIME: 4:15 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 12

LOCATION: N of Old Prairie Dupont Creek and W of Dead Creek in Cahokia, IL.

PICTURE TAKEN TOWARD: N

COMMENTS: The air-borne particulates were heavy on this day.

DATE: March 27, 1991

TIME: 4:25 PM

PHOTOGRAPH TAKEN BY:

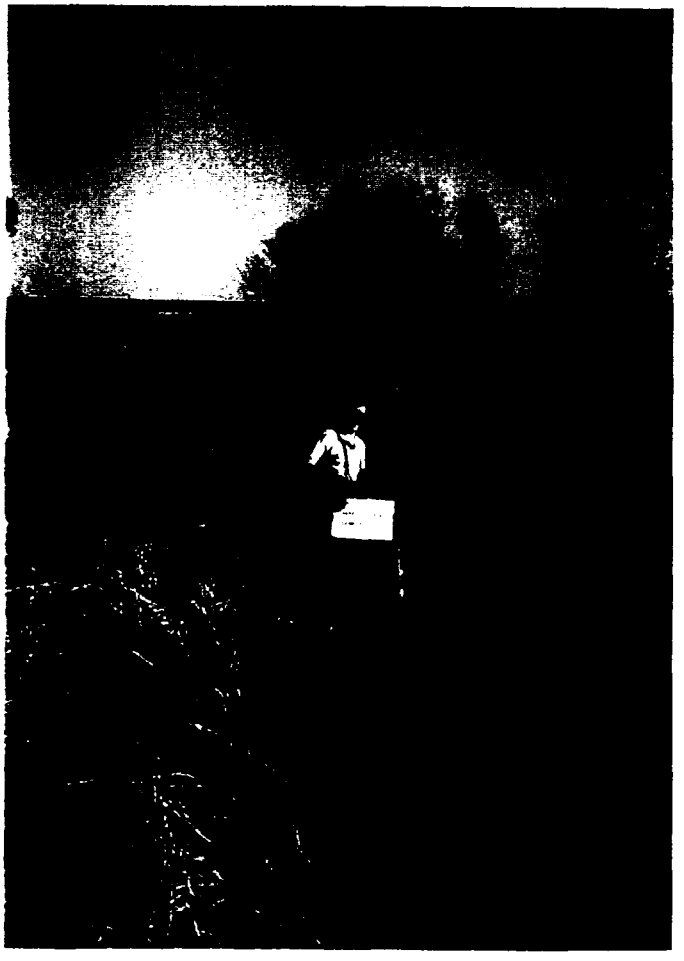
Timothy J. Murphy

PHOTOGRAPH NUMBER: 13

LOCATION: Old Prairie Dupont Creek and Dead Creek in Cahokia, IL, (X113).

PICTURE TAKEN TOWARD: E

COMMENTS: Dead Creek flows under the 500 year levee prior to entering the Old Prairie Dupont Creek.



DATE: March 27, 1991

TIME: 4:40 PM

PHOTOGRAPH TAKEN BY:

Judy Triller

PHOTOGRAPH NUMBER: 14

LOCATION: Old Prairie Dupont Creek in Cahokia, IL, (X112).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is approximately 200' up-stream of the Dead Creek inlet.

DATE: March 27, 1991

TIME: 4:40 PM

PHOTOGRAPH TAKEN BY:

Judy Triller

PHOTOGRAPH NUMBER: 15

LOCATION: Old Prairie Dupont Creek in Cahokia, IL, (X112).

PICTURE TAKEN TOWARD: E

COMMENTS: Old Prairie Dupont Creek flows into the Cahokia Chute of the Mississippi River.

DATE: March 27, 1991

TIME: 5:00 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 16

LOCATION: Dead Creek wet-land area in Cahokia, IL.

PICTURE TAKEN TOWARD: E-NE

COMMENTS: The large wetland is located W of the village of Cahokia. X111 was collected here.

DATE: March 27, 1991

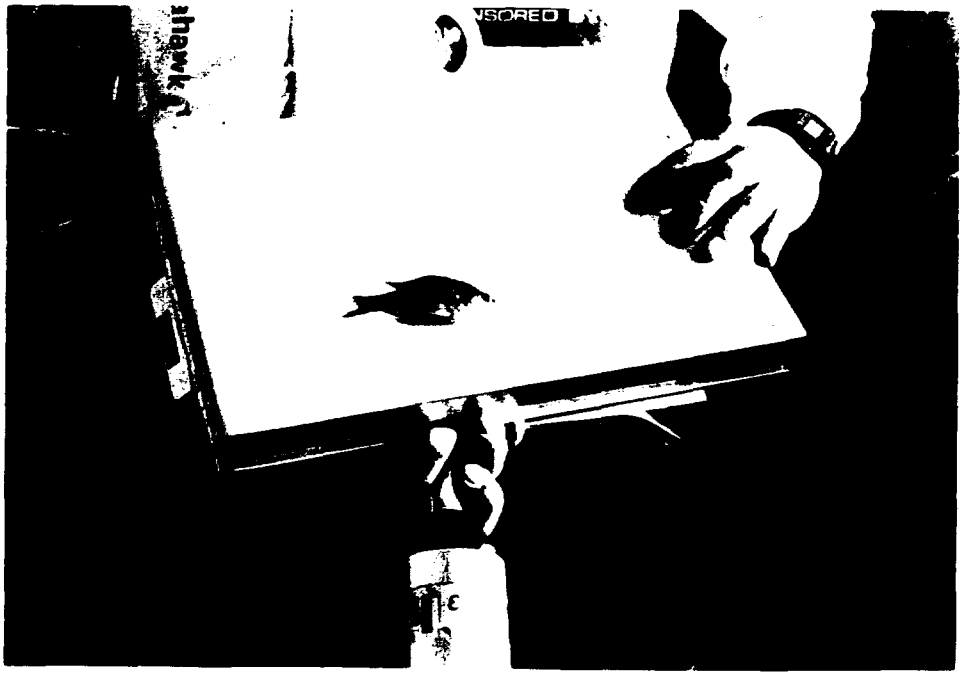
TIME: 5:15 PM

PHOTOGRAPH TAKEN BY:

Greg Spencer

PHOTOGRAPH NUMBER: 17

LOCATION: Dead Creek wet-land area in Cahokia, IL, near X111.



PICTURE TAKEN TOWARD: SE

COMMENTS: Many small fish were in the wetland, this bluegill had something wrong with its back.

DATE: March 27, 1991

TIME: 5:30 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 18

LOCATION: Dead Creek wetland area in Cahokia, IL, (X111).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is near the N corner of the power line pole.

DATE: March 27, 1991

TIME: 5:30 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 19

LOCATION: Dead Creek wetland area in Cahokia, IL, (X111).

PICTURE TAKEN TOWARD: E

COMMENTS: This location appears to be the center of Dead Creek running through the wetland.

DATE: March 28, 1991

TIME: 9:05 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 20

LOCATION: Dead Creek at Parks College in Cahokia, IL, (X110).

PICTURE TAKEN TOWARD: E-NE

COMMENTS: The location is at the N culvert, between the Parks College parking lot/practice field and the classroom buildings.

PHOTO # 21 toward the SE

DATE: March 28, 1991

TIME: 9:05 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 22

LOCATION: Dead Creek at Parks College in Cahokia, IL, (X110).

PICTURE TAKEN TOWARD: NE

COMMENTS: Dead Creek not very wide at this location.

DATE: March 28, 1991

TIME: 9:30 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 23

LOCATION: Dead Creek N of Parks College in Cahokia, IL, (X109).

PICTURE TAKEN TOWARD: N-NW

COMMENTS: This location is very close to several trailer homes.

DATE: March 28, 1991

TIME: 9:30 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 24

LOCATION: Dead Creek N of Parks College in Cahokia, IL, (X109).

PICTURE TAKEN TOWARD: E-NE

COMMENTS: Certain areas of Dead Creek contained coarser deposits, as is the case at this location.

DATE: March 28, 1991

TIME: 9:50 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 25

LOCATION: Dead Creek in Cahokia, IL, (X108).

PICTURE TAKEN TOWARD: W

COMMENTS: The location is near the VFW Hall at the S end of the culvert.

DATE: March 28, 1991

TIME: 9:50 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 26

LOCATION: Dead Creek in Cahokia, IL, (X108).

PICTURE TAKEN TOWARD: E

COMMENTS: The culvert supports Edger St. as it passes over Dead Creek.

DATE: March 28, 1991

TIME: 10:15 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 27

LOCATION: Dead Creek in Cahokia, IL, (X107).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is directly behind the house at 3809 White Street.

DATE: March 28, 1991

TIME: 10:15 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 28

LOCATION: Dead Creek in Cahokia, IL, (X107).

PICTURE TAKEN TOWARD: SE

COMMENTS: The sampler was able to locate the same hole in order to get enough sample.

DATE: March 28, 1991

TIME: 10:50 AM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 29

LOCATION: Dead Creek in Cahokia, IL, (X106).

PICTURE TAKEN TOWARD: E

COMMENTS: The location is behind the repair garage on Jerome St.

DATE: March 28, 1991

TIME: 10:50 AM

PHOTOGRAPH TAKEN BY:

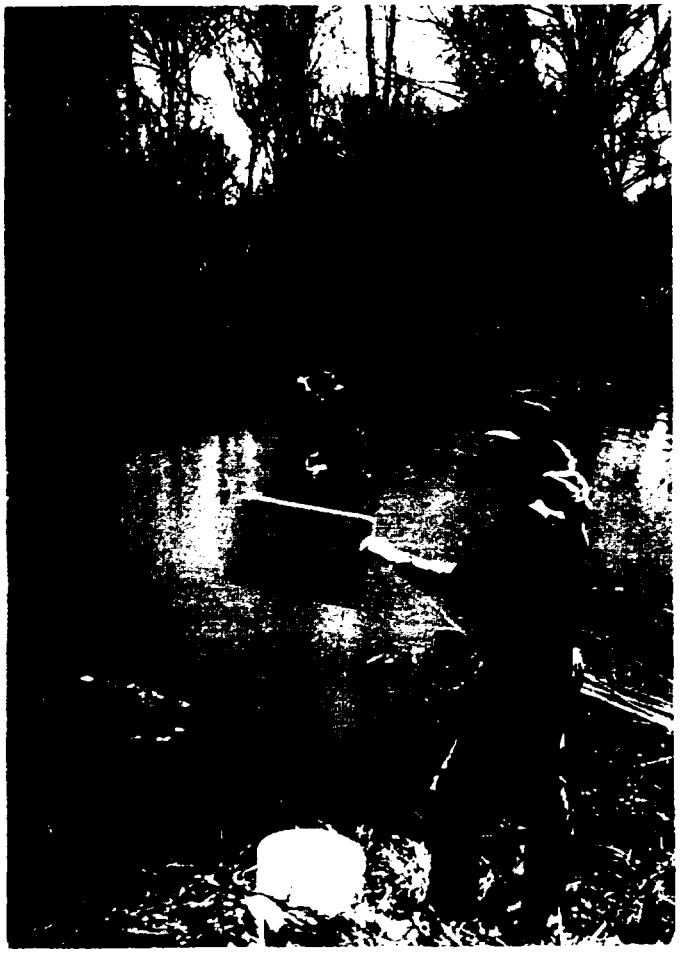
Timothy J. Murphy

PHOTOGRAPH NUMBER: 30

LOCATION: Dead Creek in Cahokia, IL, (X106).

PICTURE TAKEN TOWARD: E

COMMENTS: Sample collected same as X107.



DATE: March 28, 1991

TIME: 12:00 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 31

LOCATION: H.E. Kirby property, 144 St. James St in Cahokia, IL, (X104).

PICTURE TAKEN TOWARD: NW

COMMENTS: The location is on the SE side of the property, purging G204 in the background.

DATE: March 28, 1991

TIME: 12:10 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 32

LOCATION: H.E. Kirby property, 144 St. James St in Cahokia, IL, (X104).

PICTURE TAKEN TOWARD: NW

COMMENTS: The 30' well is used occasionally for drinking, gardening and grass watering.

DATE: March 28, 1991

TIME: 12:45 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 33

LOCATION: J. Ballett property at 3300 Falling Springs Rd. in Cahokia, IL, (X103).

PICTURE TAKEN TOWARD: NW

COMMENTS: The location is at the NW corner of the front yard.

DATE: March 28, 1991

TIME: 12:45 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 34

LOCATION: J. Ballett property at 3300 Falling Springs Rd. in Cahokia, IL, (X103).

PICTURE TAKEN TOWARD: NW

COMMENTS: In the background is Site H, Cerro Copper Products and the Arch.

DATE: March 28, 1991

TIME: 1:00 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 35

LOCATION: W. Schmidt property at 104 Judith Ln. in Cahokia, IL, (X102).

PICTURE TAKEN TOWARD: S

COMMENTS: The location is in the back yard, S side of the property. Time on Photo board should be 1:00

DATE: March 28, 1991

TIME: 1:00 PM

PHOTOGRAPH TAKEN BY:

Timothy J. Murphy

PHOTOGRAPH NUMBER: 36

LOCATION: W. Schmidt property at 104 Judith Ln. in Cahokia, IL, (X102).

PICTURE TAKEN TOWARD: SW

COMMENTS: The location is the same propety where G202 was collected.

DATE: March 28, 1991

TIME: 1:15 PM

PHOTOGRAPH TAKEN BY:

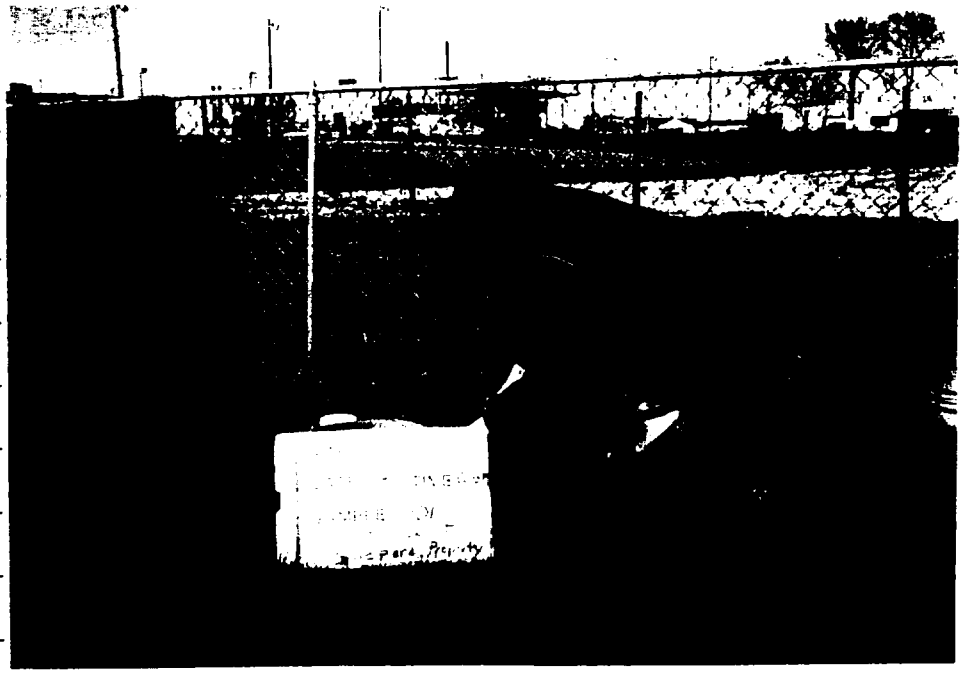
Timothy J. Murphy

PHOTOGRAPH NUMBER: 37

LOCATION: V. Shepard property at 25 David St. in Cahokia, IL, (X101).

PICTURE TAKEN TOWARD: NW

COMMENTS: The location is in the back yard, N side of the property. Time on Photo board should be 1:15



DATE: March 28, 1991

TIME: 1:15 PM

PHOTOGRAPH TAKEN BY:

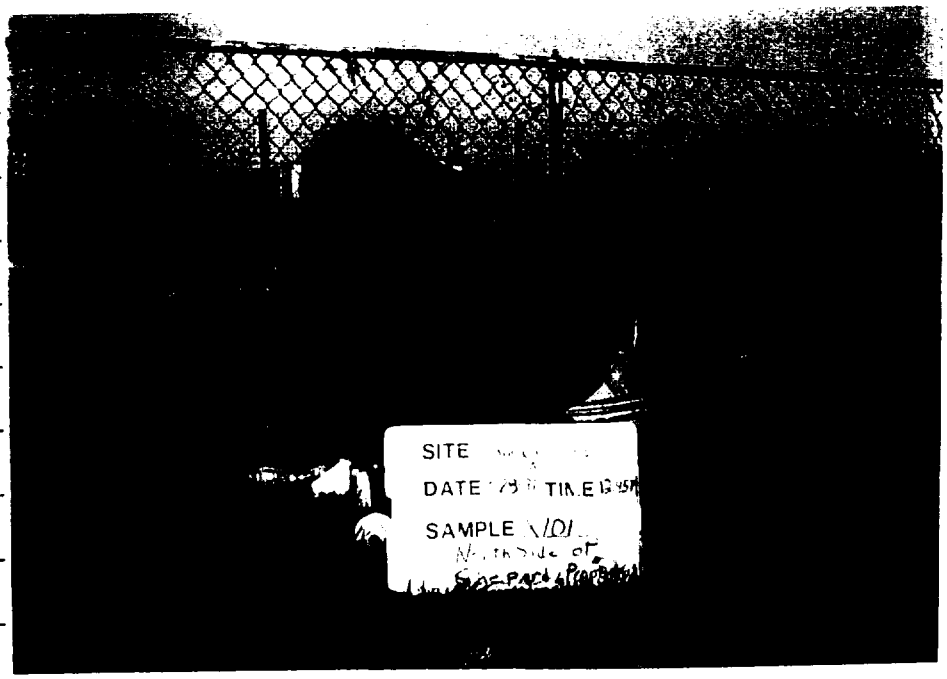
Timothy J. Murphy

PHOTOGRAPH NUMBER: 38

LOCATION: V. Shepard property at 25 David St. in Cahokia, IL, (X101).

PICTURE TAKEN TOWARD: NE

COMMENTS: The location is in the back yard, N side. There is a golf ball driving range in the back.



APPENDIX G

FLOOD INSURANCE RATE MAPS

APPENDIX H

SENSITIVE AREAS FORM

Brent Manning
Director

John W. Comerio
Deputy Director

Bruce F. Clay
Assistant Director

Illinois Department of Conservation
life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601
[redacted]

June 24, 1991

Mr. Tim Murphy
IL EPA/LPC
P.O. Box 19276
Springfield, IL 62794-9276

Re: ILD #980606982, 000672329, 000605790, 000722074, 000665836
Sauget Sites Area #2 Area #1 and Area #2 have the same surface water route

Dear Mr. Murphy:

In response to your June 10, 1991 request the Department has reviewed the proposed CERCLIS Sites (Sauget Area #2) in St. Clair County.

There are no sensitive areas on site, but there are several sensitive areas in the 0-¼ and ¼ to ½ mile radius of the site and along the water path, both on the Illinois and Missouri Sides.

The Resource Inventory for the Mississippi River for the 178-162 River Miles (see attached information) shows fish spawning areas, commercial fishing areas, sport fishing areas, important wildlife habitat and bald eagle use at selected areas in this reach.

Also, during September, 1989 fish contaminant sampling we observed numerous (~100) 9-12 inch sauger using this area of the river between RM. 178-176. Large numbers of channel catfish and white bass were also observed. It is likely these species also use much of the 178-162 mile reach.

Thank you for the opportunity to comment. If you need further information please advise.

Sincerely,

Richard W. Lutz

Richard W. Lutz, Supervisor
Impact Analysis Section
Division of Planning

RWL:ts

Att: sensitive areas form
Resource Inventory maps

RECEIVED
JUN 26 1991
IEPA/DLPC

DEPARTMENT OF CONSERVATION IDENTIFICATION OF ENVIRONMENTAL SENSITIVE AREAS

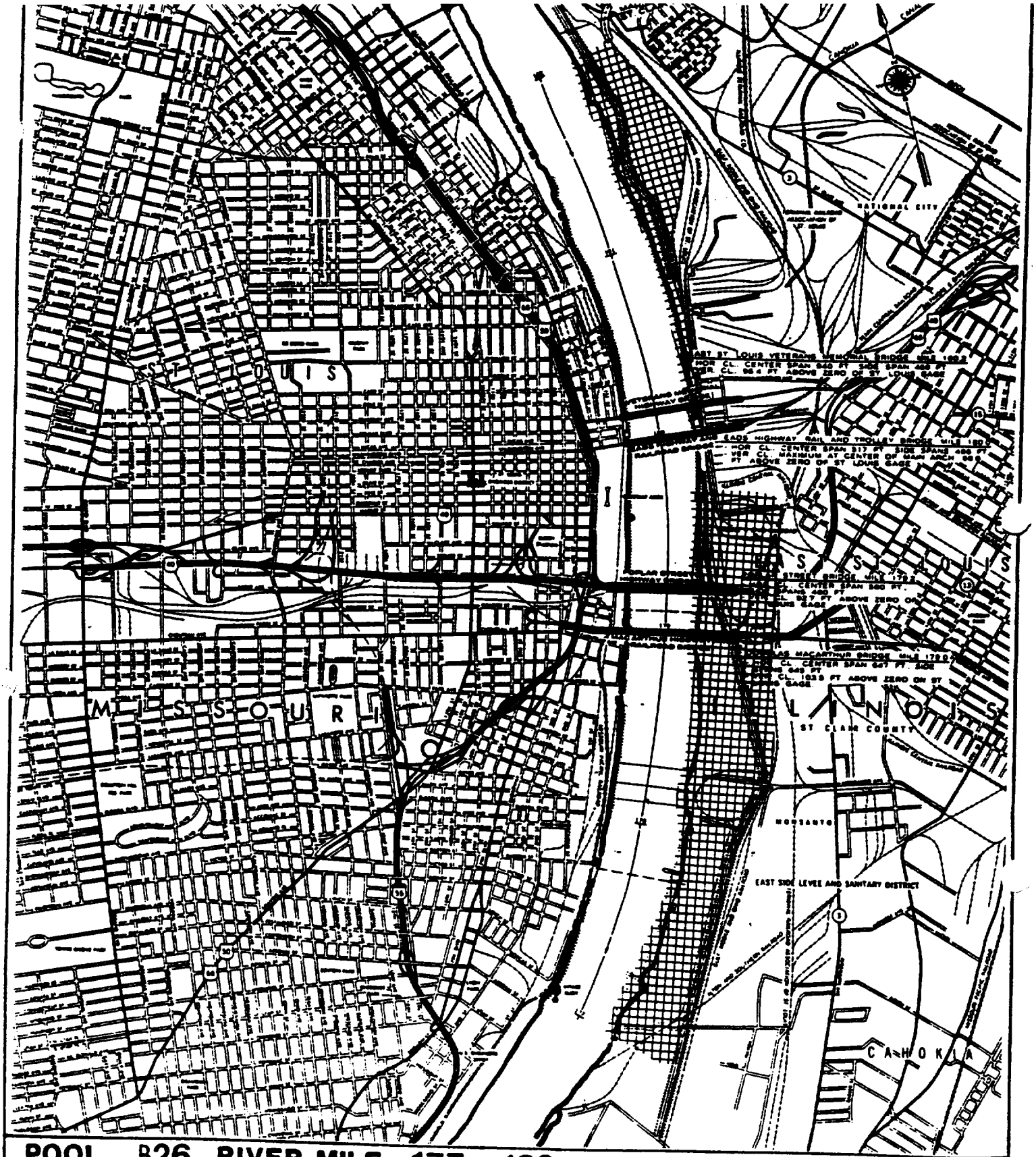
—— = None in Area

ILD# 000665836
98060698Z
000672329
000605790
000722074

TARGET DISTANCE CATEGORIES

SENSITIVE ENVIRONMENTS	On-site	0-1/4 mile	1/4-1/2 mile	stream milage
I. Critical habitat for Federally designated or proposed endangered or threatened species	—	—	—	
II. Habitat known to be used by Federally designated or proposed endangered or threatened species	—	—	—	*
III. State wildlife refuge	—			
IV. Spawning areas critical for the maintenance of fish/ shellfish species within a river system	—	*	*	*
V. Terrestrial areas utilized by large or dense aggregations of verbebrate animals for breeding	—	—	—	*
VI. Habitat known to be used by State designated or threatened species	—	—	—	*
VII. Habitat known to be used by a species under review as to its Federal endangered or threatened status	—	—	—	—
VIII. State lands designated for wildlife or game management	—	—	—	*
IX. State designated natural area	—	—	—	—
X. Particular areas, relatively small in size, important to the maintenance of unique biotic communities	—	—	—	—

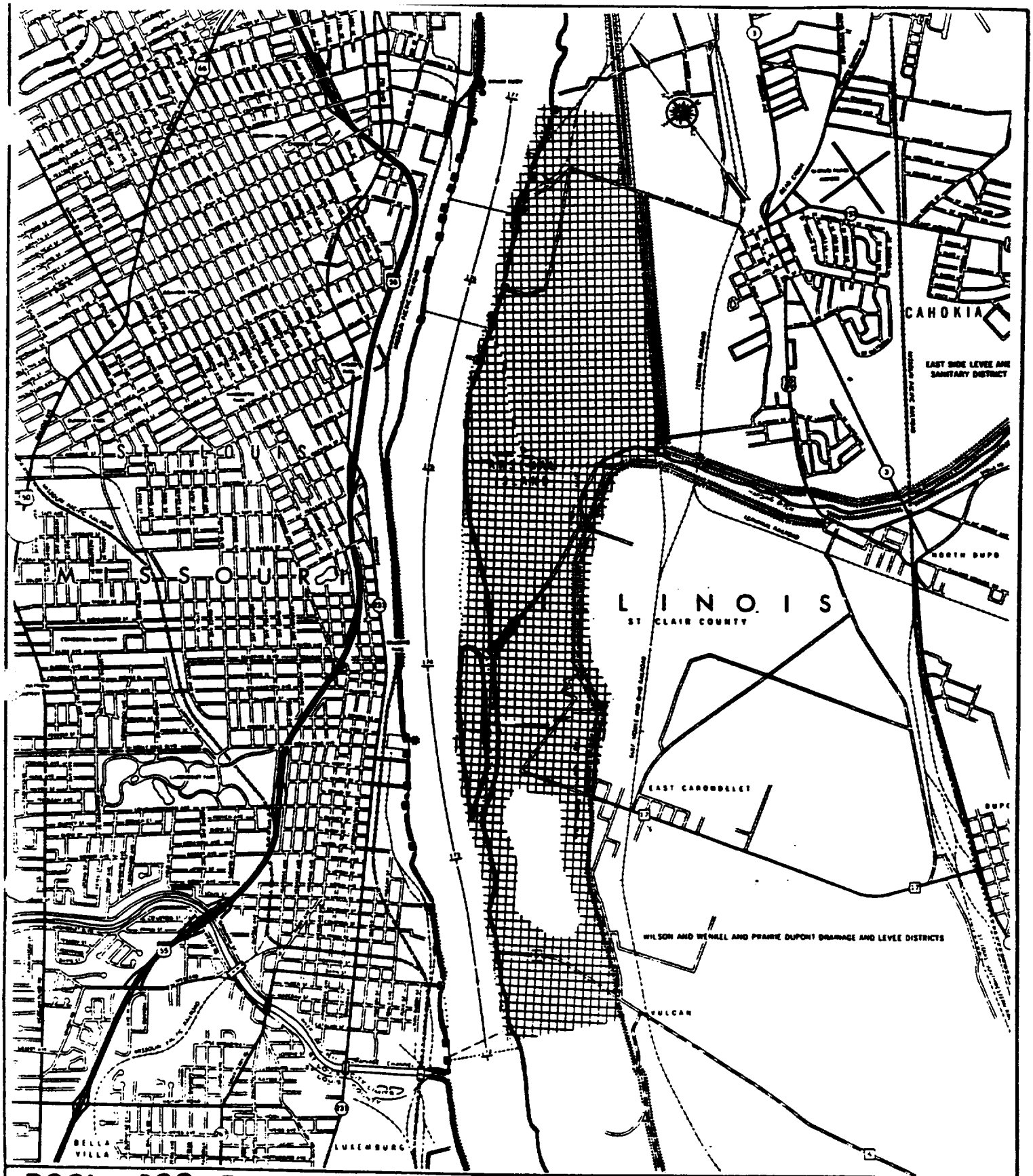
If any of the sensitive areas identified above exist within the designated target distance limits, please post an asterisk (*) in the appropriate column.



POOL B26 RIVER MILE 177 -182

USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE



POOL B26 RIVER MILE 172 - 177

USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE

River Mile 177-182

Recreation

179.6(L) - The East St. Louis Access contains bank fishing and a scenic view of Gateway Arch.

179.7(R) - St. Louis City Harbor (boat ramp and marina).

179.8(R) - Jefferson National Expansion Memorial.

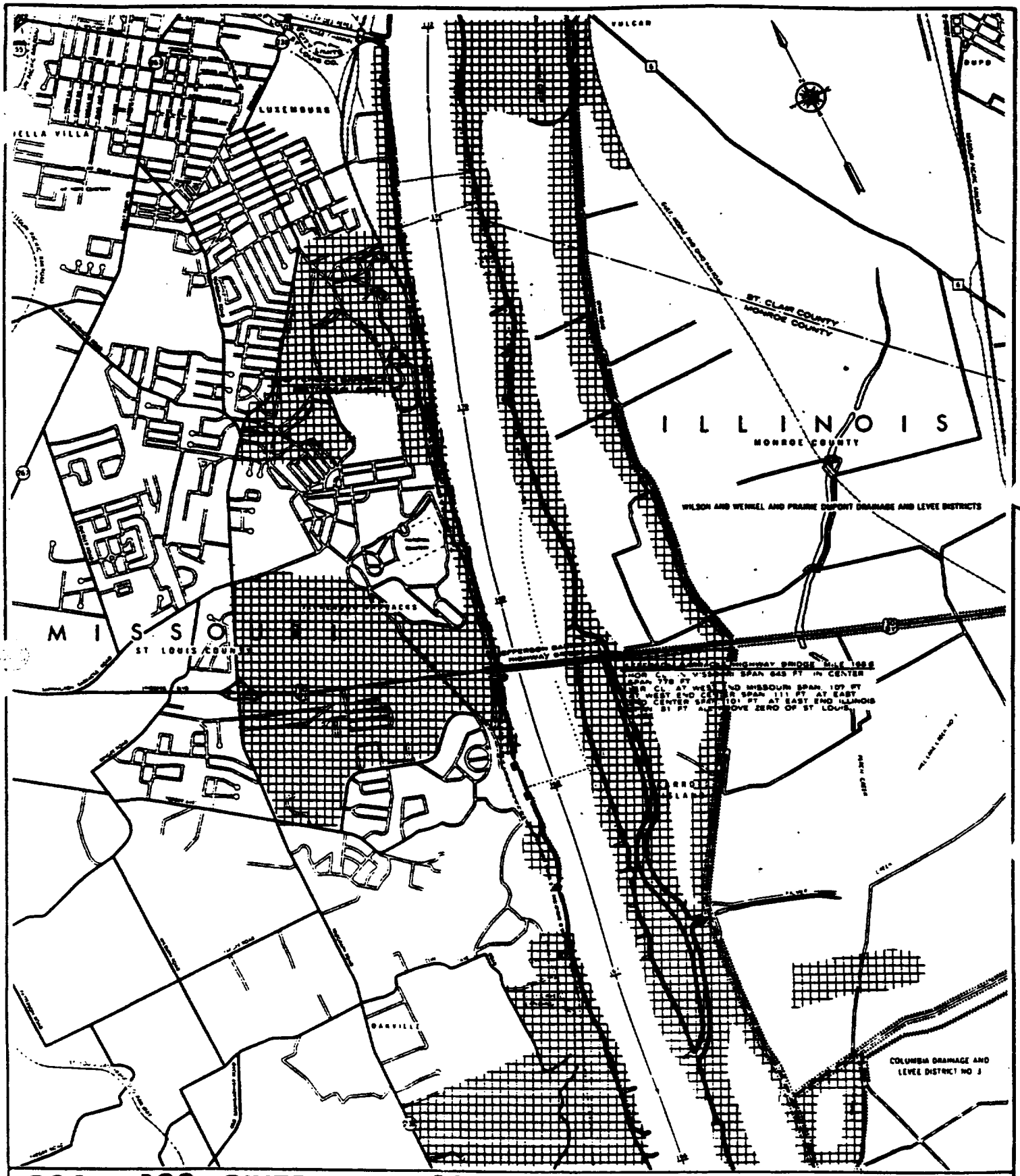
River Mile 172-177

Wildlife

172.5-176.0(L) - Important area for mourning dove.

Recreation

174.4(R) - Upper and Lower Bellerive Park.



POOL B26 RIVER MILE 166 - 172

- USFWS Closed area (restricted hunting)
- Important wildlife habitat
- Rookery
- Bald eagle

WILDLIFE

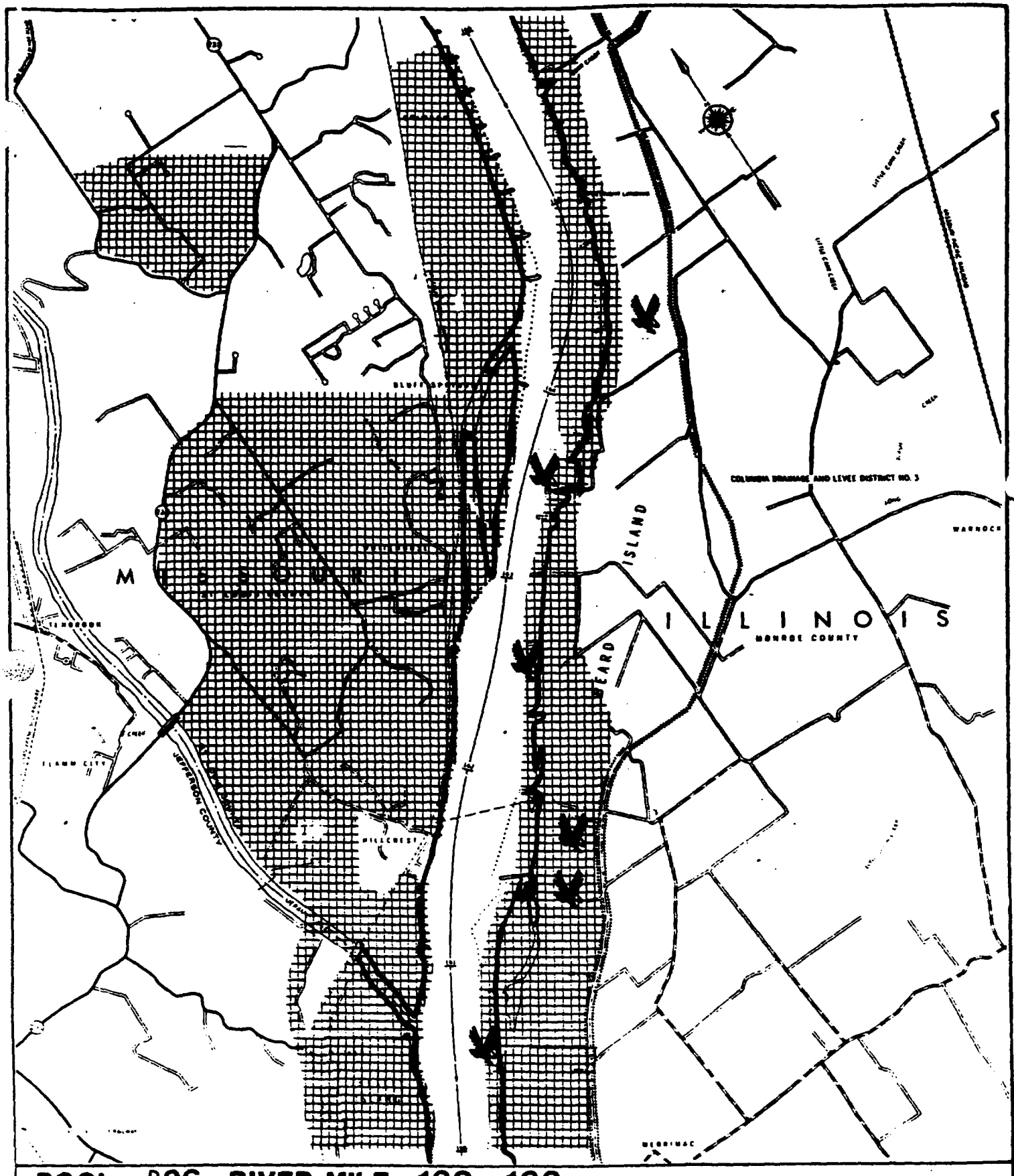
River Mile 166-172

Recreation

167.0(R) - Cliff Cave contains a picnic area, bluffs, and caves. The Cliff Cave Natural Area is also located here.

170.0-171.0(R) - Jefferson Barracks Historical Park (camping, picnic area, historic site).

171.5(R) - Black Forest Park (picnic area).



POOL B26 RIVER MILE 160 - 166

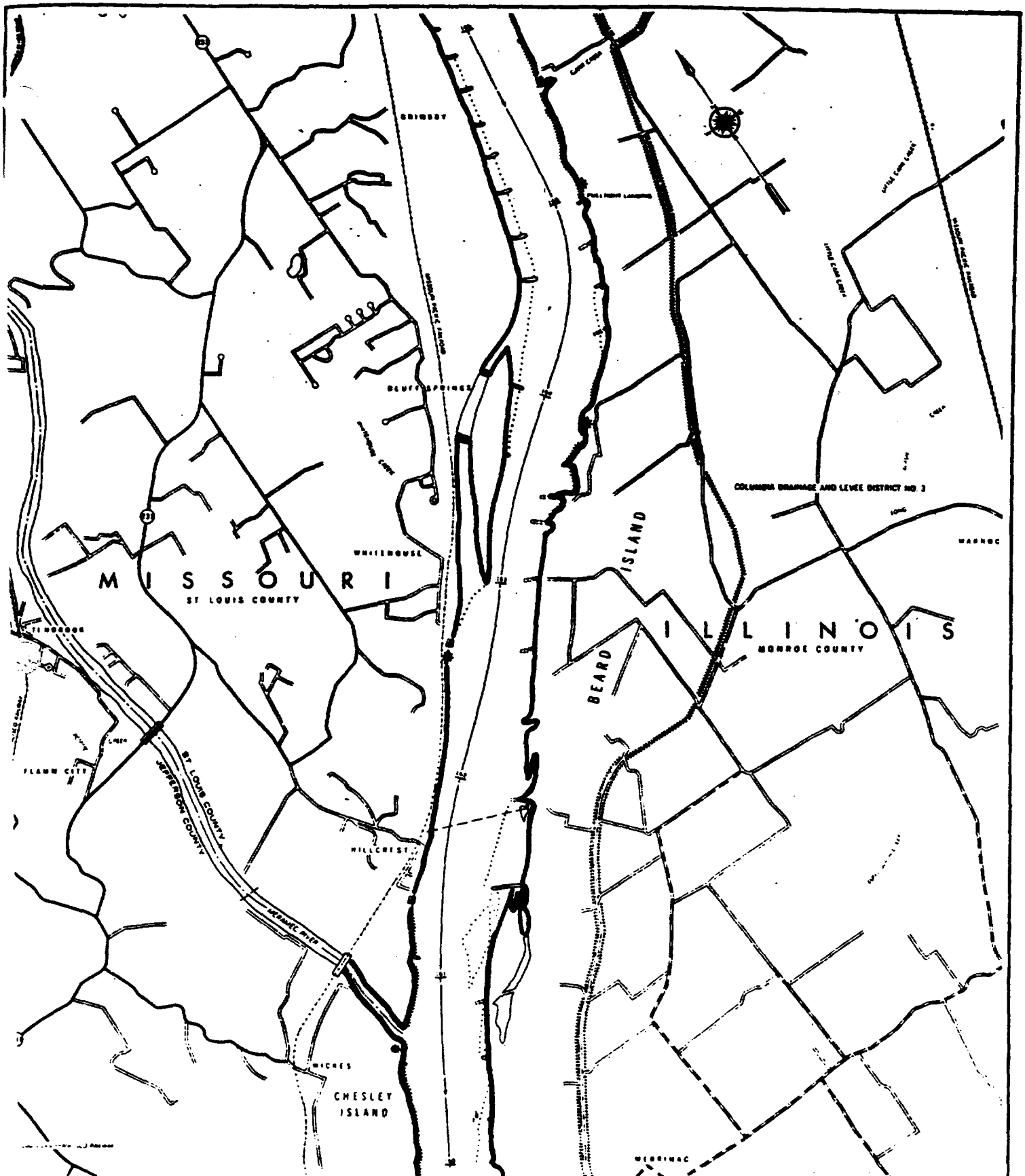
USFWS Closed area (restricted hunting)
Important wildlife habitat
Rookery
Bald eagle

WILDLIFE

River Mile 160-166

Recreation

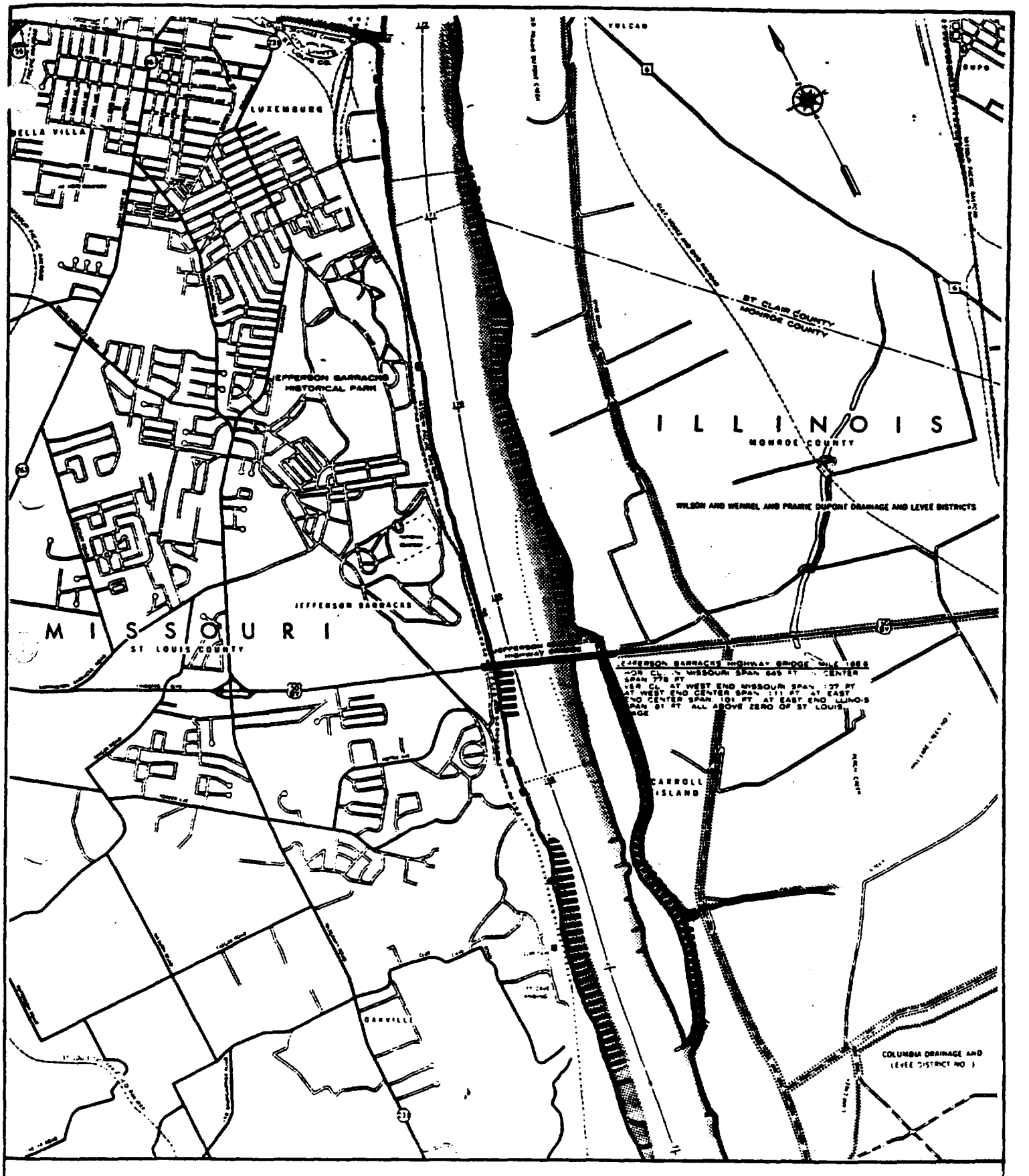
162.8 - Bee Tree (hiking trail and picnic area).



Popular sand beach
Water oriented recreation facility
Public park or recreation area
Popular water sport area
Access to side channel

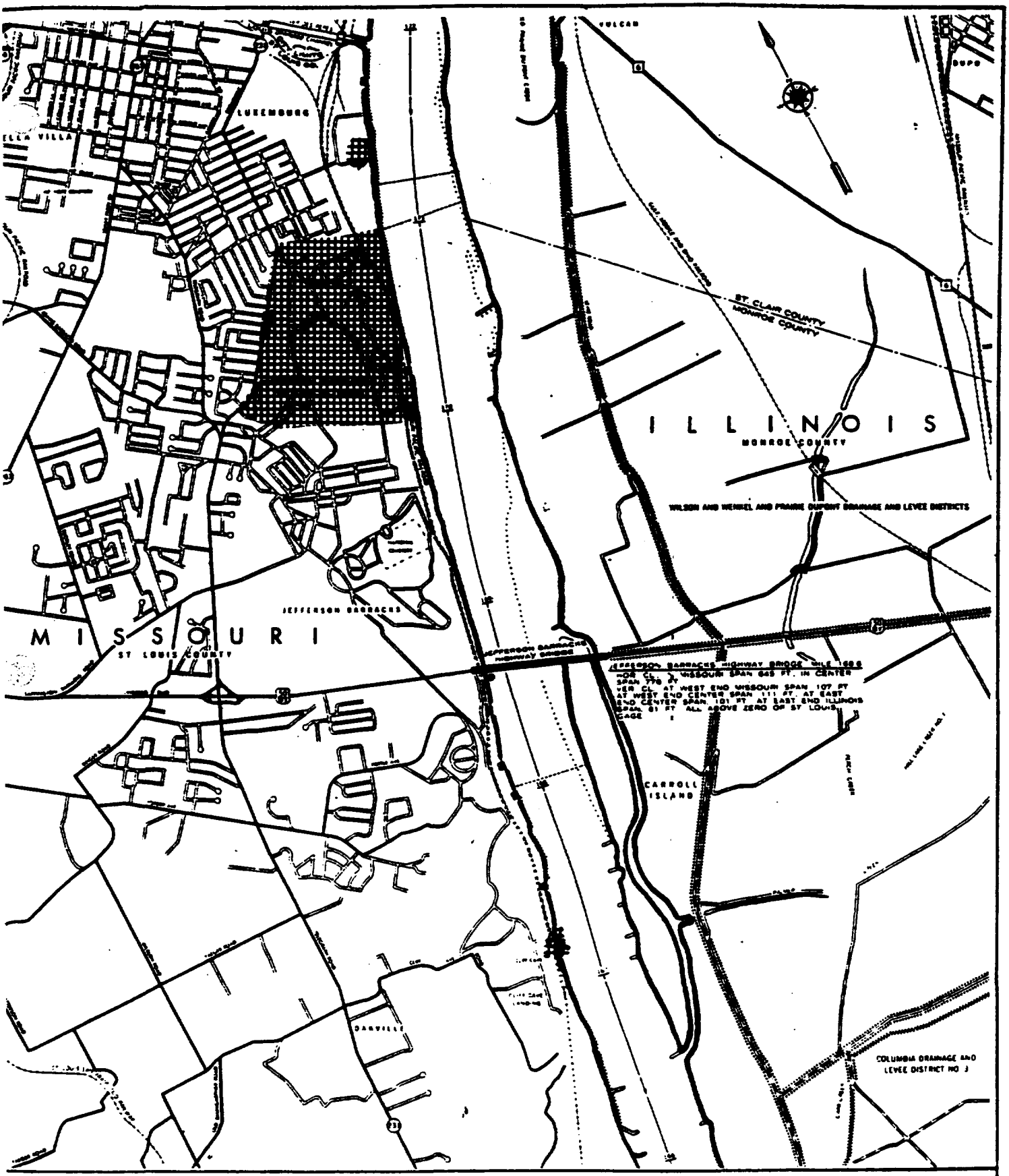
Significant vista

RECREATION



Spawning habitat
Sport fishing area
Important commercial fishing area
Mussel bed

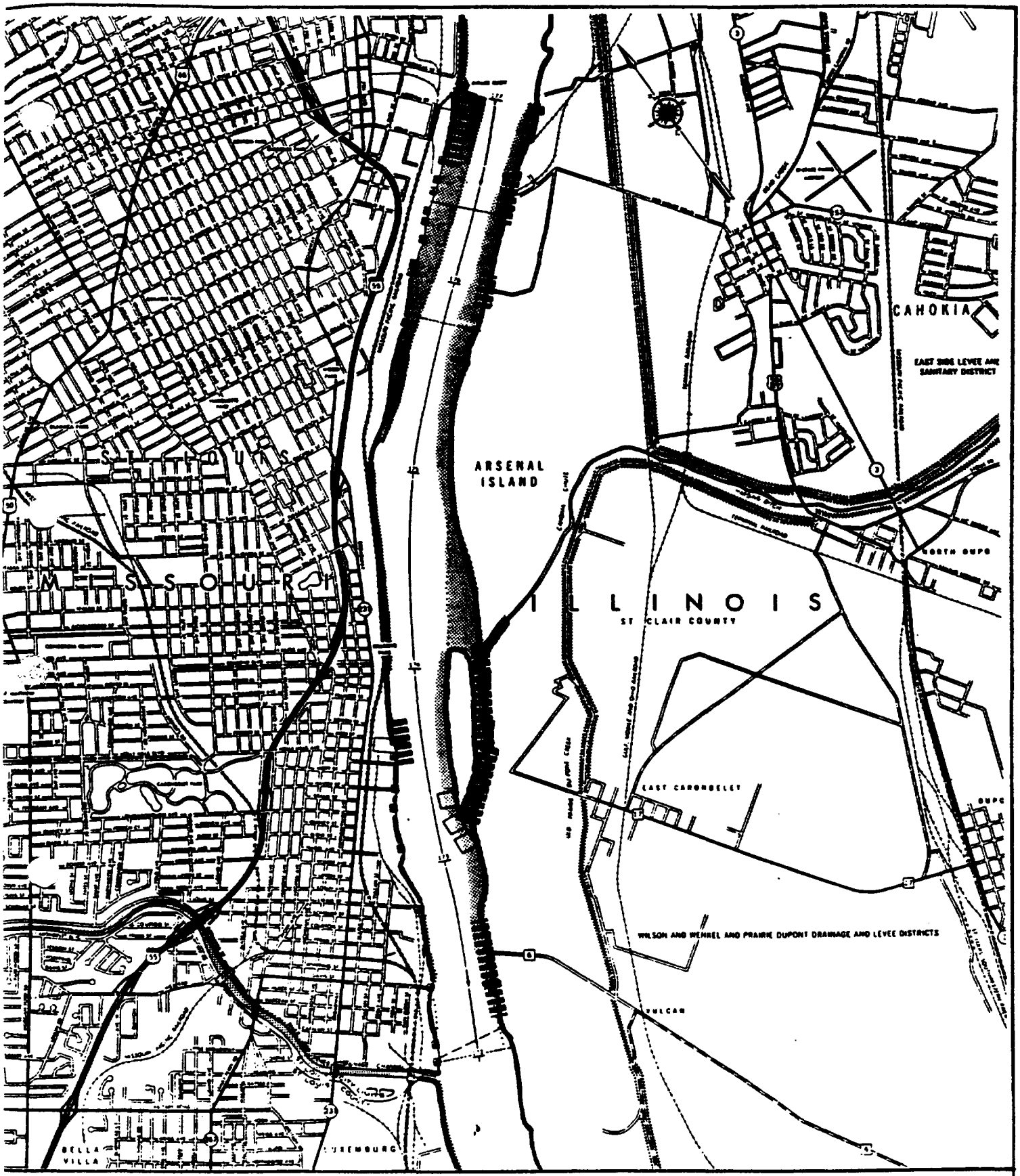
FISHERIES



Popular sand beach
Water oriented recreation facility
Public park or recreation area
Popular water sport area
Access to side channel

Significant vista

RECREATION

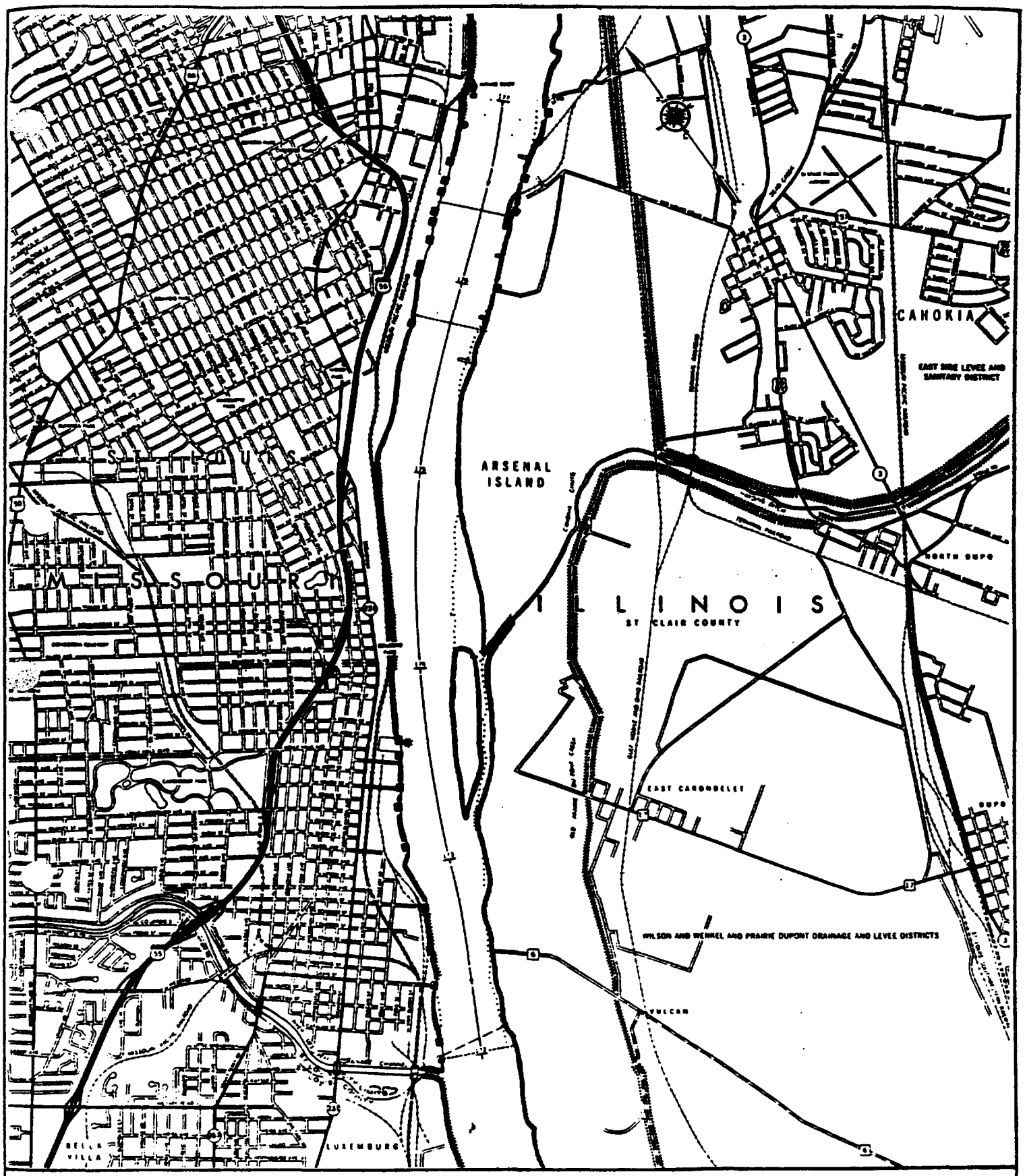


Spawning habitat
Sport fishing area
Important commercial fishing area
Mussel bed

FISHERIES

Spawning habitat
Sport fishing area
Important commercial fishing area
Mussel bed

FISHERIES



Popular sand beach
Water oriented recreation facility
Public park or recreation area
Popular water sport area
Access to side channel

Significant vista

RECREATION

Popular sand beach
Water oriented recreation facility
Public park or recreation area
Popular water sport area
Access to side channel

Significant vista

RECREATION

APPENDIX J

PRIVATE WELL SAMPLE FORMS

...S DEPARTMENT OF PUBLIC HEALTH
...ISION OF LABORATORIES

07658

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE OR FACILITY NAME: Lawrence Hutson (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 3304 Falling Rock Rd. (STREET/RURAL ROUTE/ROAD)

Carolina (CITY/TOWN/STATE) | 27260 (ZIP CODE) | 163 (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 8 (MO) 5 (DAY) 85 (YR) 3. TIME COLLECTED: AM PM 1139

4. IS SUPPLY CHLORINATED? YES 1 NO 0 X (SAMPLE POINT DESCRIPTION (OPTIONAL))

5. NAME OF COLLECTOR: W. Magnuson

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW): DUG D; DRILLED R; DRIVEN V; BORED E — IF WELL ENTER DEPTH FEET: 34'

(IF OTHER THAN WELL CHECK ONE BELOW)
b. CITY WATER Y; c. CISTERN C; d. SPRING S; e. LAKE L; f. OTHER O

7. SAMPLE LOCATION
a. RAW AT PUMP P; b. FILTERED F; c. AT TAP N; d. OTHER O

8. MAIL REPORT TO:
NAME: Eastside Health District
STREET, RR, ETC: 5410 Brandywine Rd.
CITY, STATE: East St. Louis Ill. ZIP CODE: 62203
TELEPHONE NBR: 618 - 874 - 4692

REMARKS:

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	551
11. REGION OR LHD:	4
12. LABORATORY ID:	60
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	>16.0	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO 8 DAY 6 YR 85 AM PM TIME: 9

18. DECHLORINATED BOTTLE? YES 1 NO 0 X

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:
% = PERCENT; A = GRAMS; B = /GM; C = DEGC; F = DEGF; H = /100ML; I = MICROGRAM/L; J = /100GM; L = MG/L; M = /ML; O = COLOR; T = TU; U = MICROGM/ML; X = PPM; Y = PPB

19. DATE REPORTED FROM LABORATORY: MO 8 DAY 8 YR 85 ANALYST

INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☒ SATISFACTORY	☐ SATISFACTORY
☒ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

LHD STAMP

REMARKS: See attached 8-9-85 LW. Fred T. Crawford

REPORT OF ANALYSIS

This sample has been analyzed for pollutional bacteria called "coliforms" which are normally present in the intestinal tract of humans, birds, and land animals. They are always found in sewage, and are generally present in surface water and shallow ground water. Coliforms in a water sample usually indicate that pollution is entering the water supply and that organisms which cause intestinal infections may be present or may gain entrance to the supply. Proper location, construction, and maintenance of a supply will prevent pollution from entering, thus assuring a bacteriologically safe water.

OPINIONS checked below indicate the quality of the water for drinking at the time of sample collection:

☐ SAFE for drinking, but the continued safety depends upon the source being properly located, contructed, and maintained as explained in our circular. Do not rely on a "safe" analysis if there is any sanitary defect in location or construction of source.

☒ POLLUTIONAL bacteria present in sample. The water is UNSAFE to drink. Read our circular carefully for proper location and construction, and for disinfection. Pollutional organisms are destroyed by bringing the water to a rolling boil for three minutes.

☒ NITRATE content - satisfactory - for use by children under one year.

☐ NITRATE content is too high for use by children under one year as it may cause "blue baby" illness. Nitrate in water cannot be decreased by boiling. A water with 10 or less milligrams of nitrate (as N) per liter (MG/L) is recommended.

Local Health Department Stamp

MW 61-PVT

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

02108

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 – 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING RIBBON.

COLLECTOR – PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE OR FACILITY NAME: John Gallatin (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 3200 Gallatin S.D.R.S. (STREET/RURAL ROUTE/ROAD)

Cahokia (CITY/TOWN/STATE) 62206 (ZIP CODE) 163 (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 7 26 85 (MO DAY YR) 3. TIME COLLECTED: 1100 (AM) (PM)

4. IS SUPPLY CHLORINATED? 1 YES ☐ 0 NO ☒ (SAMPLE POINT DESCRIPTION (OPTIONAL))

5. NAME OF COLLECTOR: W. Magnuson

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW): DUG ☐ D; DRILLED ☐ R; DRIVEN ☒ V; BORED ☐ B

IF WELL ENTER DEPTH FEET: 35

(IF OTHER THAN WELL CHECK ONE BELOW): b. CITY WATER ☐ Y; c. CISTERN ☐ C; d. SPRING ☐ S; e. LAKE ☐ L; f. OTHER ☐ O

7. SAMPLE LOCATION: a. RAW AT PUMP ☐ P; b. FILTERED ☒ F; c. AT TAP ☐ T; d. OTHER ☐ O

8. MAIL REPORT TO:

NAME: E. Side Health District

STREET, RR, ETC: 5540 Bruntown Rd.

CITY/STATE: East St. Louis, Ill. ZIP CODE: 62204

TELEPHONE NBR: 618 - 874 - 4692

REMARKS: VR

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	< 2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAL)		DECHLORINATED SAMPLE NO CHEMICAL ANALYSIS	L

*CODE UNIT AS FOLLOWS:
% = PERCENT; A = GRAMS; B = /GM.; C = DEGC; F = DEGF; H = /100ML.; I = MICROGRAM/L.; J = /100GM.; L = MG./L; M = /ML.; O = COLOR; T = TU; U = MICROGM/ML.; X = PPM; Y = PPB

17. DATE RECEIVED AT LABORATORY: MO DAY YR: JUL 30 1985 AM PM TIME: 900 P

18. DECHLORINATED BOTTLE? 1 YES ☒ 0 NO ☐

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO DAY YR: 8-1-85 P ANALYST

INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☒ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

LHD STAMP

REMARKS: 8-2-85 L.W. Neal L. Crawford

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 – 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING
COLLECTOR – PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE OR FACILITY NAME: Lewis Ruval (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 2482 Revelis LA. (STREET/RURAL ROUTE/ROAD) 2482

Cahokia (CITY/TOWN/STATE) | ZIP CODE | 163 (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 3 25 86 (MO DAY YR)   3. TIME COLLECTED: 10:00 (AM) | (PM)

4. IS SUPPLY CHLORINATED? 1 ☐ YES   0 ☒ NO   SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR: Holmes & Mayann

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ☐ D
- DRILLED ☒ R
- DRIVEN ☐ V
- BORED ☐ B

IF WELL ENTER DEPTH FEET: 29

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ☐ Y
- c. CISTERN ☐ C
- d. SPRING ☐ S
- e. LAKE ☐ L
- f. OTHER ☐ O

7. SAMPLE LOCATION
- a. RAW AT PUMP ☐ P
- b. FILTERED ☐ F
- c. AT TAP ☒ N
- d. OTHER ☐ O

OFFICIAL USE	
9. MICROFILM NO:	
10. TRAN. CODE:	55
11. REGION OR LHD:	4
12. LABORATORY ID:	001
13. PROGRAM CODE:	
14. COLLECTOR ID:	
15. FACILITY ID:	

8. MAIL REPORT TO:

NAME: E. Side Health dist.
STREET, RR, ETC: 5540 Bonkum Rd.
CITY/STATE: E. St. Louis   ZIP CODE: 62204
TELEPHONE NBR: 618 - 874 - 4692

REMARKS:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3080		H
NITRATE (QUAL)	1220	<10	L
NITRATE (QUAN)	1230		L
	Fe	0.5	X

17. DATE RECEIVED AT LABORATORY: MAR 26 1986 (MO DAY YR)   TIME: 9:00 (AM) | (PM) CP

18. DECHLORINATED BOTTLE? 1 ☐ YES   0 ☒ NO

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:
% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM	J = /100GM	U = MICROGM/ML
C = DEGC	L = MG/L	X = PPM
F = DEGF	M = /ML	Y = PPB

19. DATE REPORTED FROM LABORATORY: 3 - 28 - 86 (MO DAY YR)   ANALYST: PWO

16b. INTERPRETATION OF RESULTS:

COLIFORM
- ☒ SATISFACTORY
- ☐ UNSATISFACTORY

NITRATE
- ☐ SATISFACTORY
- ☐ UNSATISFACTORY

TURBIDITY
- ☐ SATISFACTORY
- ☐ UNSATISFACTORY

LHD STAMP

REMARKS: Iron, reasonably satisfactory   Fred L. Crawford
FC 3-31-86

Copy mailed owner 4/2/86 ejl

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

21988

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING.

COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE OR FACILITY NAME: LARRY BROOKS (NAME OF OWNER)

1b. ADDRESS OF SOURCE: 2413 RENOIS LANE (STREET/RURAL ROUTE/HUAD)

CAHOKIA IL (CITY/TOWN/STATE) 62206 (ZIP CODE) 163 (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 05 09 88 (MO DAY YR)

3. TIME COLLECTED: 0935 AM ☐ PM

4. IS SUPPLY CHLORINATED? 1 YES ☐ 0 NO ☒

SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR: LESTER BONNETTE

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW): DUG ☐ D; DRILLED ☒ R; DRIVEN ☐ V; BORED ☐ B

IF WELL ENTER DEPTH FEET: 044

(IF OTHER THAN WELL CHECK ONE BELOW): b. CITY WATER ☐ Y; c. CISTERN ☐ C; d. SPRING ☐ S; e. LAKE ☐ L; f. OTHER ☐ O

7. SAMPLE LOCATION: a. RAW AT PUMP ☐ P; b. FILTERED ☐ F; c. AT TAP ☒ N; d. OTHER ☐ O

8. MAIL REPORT TO:

NAME: LARRY BROOKS

STREET, RR, ETC: 2413 RENOIS LANE

CITY/STATE: CAHOKIA ZIP CODE: 62206

TELEPHONE NBR: 618 - 337 - 1287

REMARKS:

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 60
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	< 2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO DAY YR 05 12 88 TIME: AM 845 ☐ PM

18. DECHLORINATED BOTTLE? 1 YES ☒ 0 NO ☐

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT; A = GRAMS; B = /GM.; C = DEGC; F = DEGF; H = /100ML.; I = MICROGRAM/L.; J = /100GM.; L = MG./L; M = /ML.; O = COLOR; T = TU; U = MICROGM./ML.; X = PPM; Y = PPB

19. DATE REPORTED FROM LABORATORY: MO DAY YR 5 12 88 ANALYST KMA

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: DECHLORINATED SAMPLE
NO CHEMICAL ANALYSIS

LHD STAMP

DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING

COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

21275

1a. NAME OF SOURCE OR FACILITY NAME: LARRY W. SMITH (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 1303 ST. STEVENS (STREET/RURAL ROUTE/ROAD)

CAHOKIA (CITY/TOWN/STATE) IL 62206 (ZIP CODE) ____ (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 06 (MO) 13 (DAY) 84 (YR) 3. TIME COLLECTED: 1030 AM ____ PM

4. IS SUPPLY CHLORINATED? 1 YES ☐ 0 NO ☒ ____ (SAMPLE POINT DESCRIPTION (OPTIONAL))

5. NAME OF COLLECTOR: Lester Bonnette

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW): DUG ☐ D; DRILLED ☒ R; DRIVEN ☐ V; BORED ☐ B
IF WELL ENTER DEPTH (FEET): 40

(IF OTHER THAN WELL CHECK ONE BELOW): b. CITY WATER ☐ Y; c. CISTERN ☐ C; d. SPRING ☐ S; e. LAKE ☐ L; f. OTHER ☐ O

7. SAMPLE LOCATION: a. RAW AT PUMP ☒ P; b. FILTERED ☐ F; c. AT TAP ☐ H; d. OTHER ☐ O

8. MAIL REPORT TO:

NAME: LARRY W. SMITH
STREET, RR, ETC: 1303 ST. STEVENS
CITY/STATE: CAHOKIA IL ZIP CODE: 62206
TELEPHONE NBR: 618 - 337 - 5845

REMARKS: Ck for Safe Drinking Water

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	>16.0	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230		L

*CODE UNIT AS FOLLOWS:
% = PERCENT; A = GRAMS; B = /GM.; C = DEGC; F = DEGF; H = /100ML.; I = MICROGRAM/L.; J = /100GM.; L = MG/L; M = /ML; O = COLOR; T = TU; U = MICROGM/ML.; X = PPM; Y = PPB

17. DATE RECEIVED AT LABORATORY: MO JUN DAY 14 YR 1984 TIME: AM 9 15 PM ____

18. DECHLORINATED BOTTLE? 1 YES ☒ 0 NO ☐

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO 6 DAY 18 YR 84

ANALYST:

16b. INTERPRETATION OF RESULTS:

COLIFORM: ☐ SATISFACTORY ☒ UNSATISFACTORY
NITRATE: ☐ SATISFACTORY ☐ UNSATISFACTORY
TURBIDITY: ☐ SATISFACTORY ☐ UNSATISFACTORY

REMARKS: DECHLORINATED NO CHEMICAL ANALYSIS

UNSAFE TO DRINK! BACTERIA PRESENT IN SAMPLE.

LHD STAMP

IDPH • CGGCF 021 • REV. 7/78

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING

COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

02671

1a. NAME OF SOURCE OR FACILITY NAME: H.E. Kearby (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 1144 St James (STREET/RURAL ROUTE/ROAD)

Cahokia IL (CITY/TOWN/STATE) 62206 (ZIP CODE) (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 08 (MO) 07 (DAY) 89 (YR)

3. TIME COLLECTED: 0940 (AM) (PM)

4. IS SUPPLY CHLORINATED? 1 YES 0 NO X

(SAMPLE POINT DESCRIPTION (OPTIONAL))

5. NAME OF COLLECTOR: Lester Bonnette East Side Health

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ..... D
- DRILLED ..... X R
- DRIVEN V
- BORED ..... B

IF WELL ENTER DEPTH FEET: 301

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ..... Y
- c. CISTERN C
- d. SPRING ..... S
- e. LAKE L
- f. OTHER ..... O

7. SAMPLE LOCATION
- a. RAW AT PUMP ..... X P
- b. FILTERED ..... F
- c. AT TAP ..... H
- d. OTHER ..... O

8. MAIL REPORT TO:

NAME: H. E. Kearby
STREET, RR, ETC: 1144 St James
CITY/STATE: Cahokia IL ZIP CODE: 62206
TELEPHONE NBR: 618 - 332 - 6559

REMARKS: Ck for Safe Water

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	Sample 748 too old	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230		L

17. DATE RECEIVED AT LABORATORY: MO AUG DAY 16 YR 1989 TIME: AM 8:30 PM 95

18. DECHLORINATED BOTTLE? 1 YES 0 X

WORK AREA:

10	1	.1	.01	.001		MEMBRANE FILTER	
						COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML.	O = COLOR
A = GRAMS	I = MICROGRAM/L.	T = TU
B = /GM.	J = /1000ML.	U = MICROGM/ML.
C = DEGC.	L = MG/L	X = PPM
F = DEGF	M = /ML.	Y = PPB

19. DATE REPORTED FROM LABORATORY: MO 8 DAY 11 YR 89 ANALYST JW

16a. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
SATISFACTORY	SATISFACTORY	SATISFACTORY
UNSATISFACTORY	UNSATISFACTORY	UNSATISFACTORY

REMARKS: 1st Bottle Sent 8.11.89 mc

LHD STAMP

Eastside Health

IDPH • CGGCF 021 • REV. 7/78

RESAMPLE - TOO OLD (OVER 48 HRS OLD)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

AUG 11 1989 SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COLLECTOR — COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING. PREPARE ONE FORM FOR EACH SAMPLE.

03846

1a. NAME OF SOURCE OR FACILITY NAME: H. E. KEARBY (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 144 ST JAMES (STREET/RURAL ROUTE/ROAD)

CAHOKIA, IL (CITY/TOWN/STATE) 62206 (ZIP CODE) COUNTY CODE (SEE BACK)

2. DATE COLLECTED: 08 29 89 (MO DAY YR)

3. TIME COLLECTED: 0845 (AM) (PM)

4. IS SUPPLY CHLORINATED? 1 [ ] YES 0 [X] NO — SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR: Lester Bonnette East Side Health

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD:
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

6. SOURCE OF SUPPLY IS: (CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)

a. WELL (IF WELL CHECK ONE BELOW)
- DUG [D]
- DRILLED [X A]
- DRIVEN [V]
- BORED [B]

IF WELL ENTER DEPTH FEET: 30

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER [Y]
- c. CISTERN [C]
- d. SPRING [S]
- e. LAKE [L]
- f. OTHER [O]

7. SAMPLE LOCATION
- a. RAW AT PUMP [X P]
- b. FILTERED [F]
- c. AT TAP [R]
- d. OTHER [O]

8. MAIL REPORT TO:

NAME: H. E. KEARBY
STREET, RR, ETC: 144 ST JAMES
CITY/STATE: CAHOKIA IL ZIP CODE: 62206
TELEPHONE NO: 618 - 332 - 6559

REMARKS: Ck For SAFE WATER

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	1090		H
NITRATE (QUAL)	1220	<1.0	L
NITRATE (QUAN)	1230		L
PSEUDOMONAS AERUGINOSA		PRESENT	

17. DATE RECEIVED AT LABORATORY: MO 8 DAY 29 YR 89 TIME: AM PM 130 JT

18. DECHLORINATED BOTTLE? 1 [ ] YES 0 [X] NO

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER: COLIFORM	FILTER COLIFORM

*CODE UNIT AS FOLLOWS:
- % = PERCENT
- A = GRAMS
- B = /GM.
- C = DEGC
- F = DEGF
- H = /100ML.
- I = MICROGRAM/L.
- J = /100GM.
- L = MG/L
- M = /ML.
- O = COLOR
- T = TU
- U = MICROGM/ML.
- X = PPM
- Y = PPB

19. DATE REPORTED FROM LABORATORY: 9-1-89 ANALYST JW

16b. INTERPRETATION OF RESULTS:

COLIFORM: [ ] SATISFACTORY [ ] UNSATISFACTORY
NITRATE: [ ] SATISFACTORY [ ] UNSATISFACTORY
TURBIDITY: [ ] SATISFACTORY [ ] UNSATISFACTORY

REMARKS:

LHD STAMP

EASTSIDE HEALTH DEPARTMENT
5540 BUNKUM ROAD
WASHINGTON PARK, IL 62204
Attn: Lester Bonnette

IDPH • CGGCF 021 • REV. 7/78

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

PRIVATE WATER SUPPLY SAMPLE FORM

02108

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING RIBBON.
COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE OR FACILITY NAME: Ethel Estates (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 3200 Ellis Sp Rd (STREET/RURAL ROUTE/ROAD)

Pekin, Ill. (CITY/TOWN/STATE) 61554 (ZIP CODE) 163 (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 12 25 85 (MO DAY YR)

3. TIME COLLECTED: 1100 (AM) (PM)

4. IS SUPPLY CHLORINATED? 1 YES [ ] 0 NO [X]

SAMPLE POINT DESCRIPTION (OPTIONAL)

5. NAME OF COLLECTOR: W. Magner

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW): DUG [D] DRILLED [R] DRIVEN [W] BORED [B]

IF WELL ENTER DEPTH FEET: 35.

(IF OTHER THAN WELL CHECK ONE BELOW)
b. CITY WATER [Y]
c. CISTERN [C]
d. SPRING [S]
e. LAKE [L]
f. OTHER [O]

7. SAMPLE LOCATION
a. RAW AT PUMP [P]
b. FILTERED [F]
c. AT TAP [H]
d. OTHER [O]

8. MAIL REPORT TO:
NAME: E Side Health District
STREET, RR, ETC: 5540 Broadmoor Rd
CITY, STATE: East St. Louis, Ill. ZIP CODE: 62204
TELEPHONE NBR: 618 - 874 - 4492

REMARKS: VR

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 001
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	< 2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)		DECHLORINATED SAMPLE NO CHEMICAL ANALYSIS	L

*CODE UNIT AS FOLLOWS.
% = PERCENT, A = GRAMS, B = /GM, C = DEGC, F = DEGF, H = /100ML, I = MICROGRAM/L, J = /100ML, L = MG/L, M = /ML, O = COLOR, T = TU, U = MICROGM/ML, V = PPM, W = PPB

17. DATE RECEIVED AT LABORATORY: MO DAY YR: JAN 30 1986 TIME: AM 900 PM

18. DECHLORINATED BOTTLE? 1 YES [X] 0 NO [ ]

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO DAY YR: 2-1-86 P ANALYST

16a. INTERPRETATION OF RESULTS:

COLIFORM: [X] SATISFACTORY [ ] UNSATISFACTORY
NITRATE: [ ] SATISFACTORY [ ] UNSATISFACTORY
TURBIDITY: [ ] SATISFACTORY [ ] UNSATISFACTORY

REMARKS: 2-2-86 LW

Neal F. Crawford

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

02667

PRIVATE WATER SUPPLY SAMPLE FORM

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING

COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE OR FACILITY NAME: Mrs. Johnson (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: 3302 Fosdick Sp. Rd (STREET/RURAL ROUTE/ROAD)

Chesterville (CITY/TOWN/STATE) [illegible] (ZIP CODE) 163 (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 8 5 84 (MO DAY YR) 3. TIME COLLECTED: AM PM 1230

4. IS SUPPLY CHLORINATED? 1 YES ☐ 0 NO ☒ (SAMPLE POINT DESCRIPTION (OPTIONAL))

5. NAME OF COLLECTOR: W. Morgan

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW)
- DUG ☐ D
- DRILLED ☐ R
- DRIVEN ☒ V
- BORED ☐ B

IF WELL ENTER DEPTH FEET: 346 feet

(IF OTHER THAN WELL CHECK ONE BELOW)
- b. CITY WATER ☐ Y
- c. CISTERN ☐ C
- d. SPRING ☐ S
- e. LAKE ☐ L
- f. OTHER ☐ O

7. SAMPLE LOCATION
- a. RAW AT PUMP ☐ P
- b. FILTERED ☐ F
- c. AT TAP ☒ N
- d. OTHER ☐ O

8. MAIL REPORT TO:

NAME: East Side Health District

STREET, RR, ETC: 5540 Bunkum Rd

CITY/STATE: East St. Louis, Ill. ZIP CODE: 62204

TELEPHONE NBR: 618 - 874 - 4492

REMARKS:

OFFICIAL USE

9. MICROFILM NO:
10. TRAN. CODE: 55
11. REGION OR LHD: 4
12. LABORATORY ID: 006
13. PROGRAM CODE:
14. COLLECTOR ID:
15. FACILITY ID:

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011	<2.2	H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230		L

DECHLORINATED SAMPLE
NO CHEMICAL ANALYSIS

*CODE UNIT AS FOLLOWS:

% = PERCENT	H = /100ML	O = COLOR
A = GRAMS	I = MICROGRAM/L	T = TU
B = /GM.	J = /100GM.	U = MICROGM./ML.
C = DEGC	L = MG./L	X = PPM
F = DEGF	M = /ML	Y = PPB

17. DATE RECEIVED AT LABORATORY: MO DAY YR: AUG 6 1985 AM PM TIME: 7 [illegible]

18. DECHLORINATED BOTTLE? 1 YES ☒ 0 NO ☐

WORK AREA:

10	1	.1	.01	.001	MEMBRANE FILTER	
					COLIFORM	FILTER COLIFORM

19. DATE REPORTED FROM LABORATORY: MO DAY YR: 8 - 10 - 85 ANALYST: TR

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS:

LHD STAMP

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF LABORATORIES

Example. Proper Container for Nitrate

PRIVATE WATER SUPPLY SAMPLE FORM

JUL 15 1983

SAMPLES SHOULD REACH LABORATORY WITHIN 30 HOURS AFTER COLLECTION

04201

COMPLETE ITEMS 1 - 8 IN BOX. USE BLACK PENCIL OR BLACK TYPING

COLLECTOR - PREPARE ONE FORM FOR EACH SAMPLE.

1a. NAME OF SOURCE OR FACILITY NAME: MELVIN M Arnold (NAME OF SOURCE)

1b. ADDRESS OF SOURCE: RR1 Box 142 Millstadt (STREET/RURAL ROUTE/ROAD)

Millstadt Ill. (CITY/TOWN/STATE) 62260 (ZIP CODE) ____ (COUNTY CODE (SEE BACK))

2. DATE COLLECTED: 9 (MO) 1 (DAY) 83 (YR) 3. TIME COLLECTED: 11 45 (AM) ____ (PM)

4. IS SUPPLY CHLORINATED? 1 YES ☐ 0 NO ☒ SOUTH WELL (SAMPLE POINT DESCRIPTION (OPTIONAL))

5. NAME OF COLLECTOR: _____

6. SOURCE OF SUPPLY IS: *(CHECK APPROPRIATE BOX & COMPLETE WHERE NECESSARY)*

a. WELL (IF WELL - CHECK ONE BELOW): DUG ☐ D; DRILLED ☒ R; DRIVEN ☐ V; BORED ☐ B

IF WELL ENTER DEPTH FEET: 40

(IF OTHER THAN WELL CHECK ONE BELOW): b. CITY WATER ☐ Y; c. CISTERN ☐ C; d. SPRING ☐ S; e. LAKE ☐ L; f. OTHER ☐ O

7. SAMPLE LOCATION: a. RAW AT PUMP ☐ P; b. FILTERED ☐ F; c. AT TAP ☒ N; d. OTHER ☐ O

8. MAIL REPORT TO:

NAME: MELVIN M Arnold

STREET, RR, ETC: RR1 Box 145

CITY/STATE: Millstadt Ill. ZIP CODE: 62260

TELEPHONE NBR: 618 - 337 - 1518

REMARKS: Nitrates Only

FOR LABORATORY USE ONLY

16. RESULTS:

PARAMETER	ID		UNIT*
TOTAL COLI (MF)	3010		H
TOTAL COLI (MPN)	3011		H
FECAL COLI	3030		H
FECAL STREP	3090		H
NITRATE (QUAL)	1220		L
NITRATE (QUAN)	1230	<0.1	L

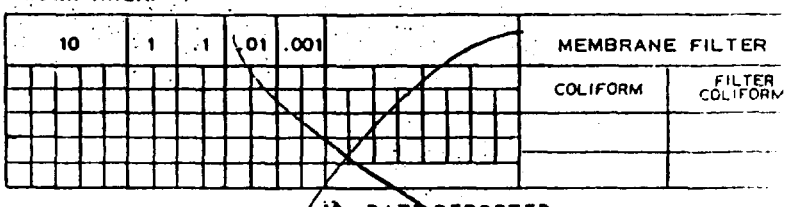
*CODE UNIT AS FOLLOWS:

% = PERCENT; A = GRAMS; B = /GM; C = DEGC; F = DEGF; H = /100ML; I = MICROGRAM/L; J = /100GM; L = MG./L; M = /ML; O = COLOR; T = TU; U = MICROGM./ML; X = PPM; Y = PPB

17. DATE RECEIVED AT LABORATORY: SEP (MO) - 2 (DAY) - 1983 (YR) TIME: 8:30 AM ____ PM

18. DECHLORINATED BOTTLE? 1 YES ☐ 0 NO ☒

WORK AREA:



19. DATE REPORTED FROM LABORATORY: 9 (MO) - 12 (DAY) - 83 (YR) ANALYST: ~

16b. INTERPRETATION OF RESULTS:

COLIFORM	NITRATE	TURBIDITY
☐ SATISFACTORY	☐ SATISFACTORY	☐ SATISFACTORY
☐ UNSATISFACTORY	☐ UNSATISFACTORY	☐ UNSATISFACTORY

REMARKS: _____

OFFICIAL USE

9. MICROFILM NO: ____

10. TRAN. CODE: 55

11. REGION OR LHD: ____

12. LABORATORY ID: ____

13. PROGRAM CODE: ____

14. COLLECTOR ID: ____

15. FACILITY ID: ____

LHD STAMP

East Side Health District.
5540 Bunkum Road
E. St Louis, IL 62204